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March 28, 1967

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Lawrence Radiation Laboratory  
University of California  
Berkeley, California

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The attached pages are a permuted index of the key words and numbers contained in the titles of the papers in the Nuclear Chemistry Division Annual Report, 1966 (UCRL-17299); authors' surnames are also indexed. This index is the first one prepared in the fashion described below for a UCRL report issued by the Berkeley facility.

The index was prepared by an IBM-1401 computer by means of the KWPT program (Key Words Plus Title). The program takes the title and author of each paper, rejects the "forbidden" (insignificant) words, and indexes those remaining--the key words, authors' surnames, and numbers. As you can see in the attached lists, the indexed terms are alphabetized, then displayed in the left column; the middle column shows the complete title and author listings, and the right column the page numbers. A given title is indexed once for each significant word and surname; thus a title that contains three key words and was written by two authors is indexed five times. Following the word index is the number index, in which numbers are treated as key words.

To make this permuted index as useful as possible, we edited the titles to make them suitable for handling by the computer.

Because this permuted index is our first, we in the Technical Information Division invite your comments concerning it. We would particularly like to know ways in which the index fails to meet your needs, or if some of the words (which ones?) now treated as significant could be added to the forbidden word list (not indexed) without a loss in the index's usefulness. We also would like to know if you have used the number part of the index. Please address all such comments to Miss Gloria Smith or Mrs. Ruth Gross.

This work was done under the auspices of the U. S. Atomic Energy Commission.

ABSORPTION	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
ABSORPTION	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
ABSORPTION	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
ACTINIDE	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
ACTINIUM	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, E K HYDE, AND K VALLI.	23
ACTIVATION	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
ACTIVATION	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
ADAMSON	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
ADAMSON	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
AHMAD	NUCLEAR SPECTROSCOPIC STUDIES OF SOME VERY HEAVY ODD-MASS NUCLIDES, I AHMAD.	371
AJZENBERG-SELOVE	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
AJZENBERG-SELOVE	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
ALI	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
ALIGNED	TABLES OF COEFFICIENTS FOR ANGULAR DISTRIBUTION OF GAMMA RAYS FROM ALIGNED NUCLEI, T YAMAZAKI.	69
ALIGNMENT	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J D NEWTON, AND F S STEPHENS.	64
ALIGNMENT	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
ALPHA	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
ALPHA	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
ALPHA	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
ALPHA	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
ALPHA	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
ALPHA	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
ALPHA	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
ALPHA-DECAY	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
ALUMINIUM-24	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
AMERICIUM-241	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
AMPLIFIER	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
ANALYZERS	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
AQUEOUS	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278

AQUEOUS	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
AQUEOUS	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
AQUOPENTACHLORO-	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
ARMSTRONG, JR	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
ASARO	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
ASSIGNMENTS	A J-DEPENDENCE IN THE (HELIUM-3, ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
ASTATINE	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
ASTATINE	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
ATKINS	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
ATOMIC	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
ATOMIC	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
ATOMS	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
AUTHOR	KEYWORD-PLUS-TITLE SUBJECT AND AUTHOR INDEX.	406
AUTO-IONIZING	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
AUTOMATIC	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
AXIAL	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
AXIAL	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
AZIDES	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
BABA	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
BABA	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
BACTERIA	THE DISPERSION OF BACTERIA, F G RUST AND C R WILKE.	297
BACTERIA	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
BACTERIA	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
BACTERIA	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
BACTERIA	THE DISPERSION OF BACTERIA, F G RUST.	378
BALL	A J-DEPENDENCE IN THE (HELIUM-3, ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
BALL	THE NITROGEN-14(HELIUM-3, T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
BANDS	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
BANSAL	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
BARCLAY	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
BARIUM	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53

BAUMGARTNER	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION $T(D, \text{HELIUM-3})2N$ , E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
BAYBARZ	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
BEAM	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
BEAM	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
BEAM	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
BEAM	CYCLOTRON BEAM DIAGNOSTICS AND INSTRUMENTATION, D J CLARK.	305
BEAM	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
BEAM	REGENERATIVE BEAM EXTRACTION, H KIM.	321
BEAM	INFLUENCE OF CYCLOTRON BEAM PROPERTIES ON EXPERIMENTS, H E CONZETT.	325
BEAT-NOTE	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
BEDS	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
BENNETT-CORNIEA	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
BENNETT-CORNIEA	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
BERKELEY	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
BERKELEY	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
BERKELEY	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
BERKELEY	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
BERKELIUM	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
BERKELIUM-249	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
BERNTHAL	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
BERYLLIUM-6	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
BERYLLIUM-9	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
BETA	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
BHAGAT	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A BHAGAT AND C R WILKE.	295
BHAGAT	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A K BHAGAT.	372
BIERLEIN	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
BINDING	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
BINDING	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
BISMUTH-209	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
BORON-14	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37

BORON-15	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
BOWMAN	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMI, R L WATSON, R C JARED, AND S G THOMPSON.	46
BOWMAN	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
BRELVI	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI AND L A BROMLEY.	245
BRELVI	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI.	373
BRINES	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
BRINES	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
BRITT	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
BROMLEY	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI AND L A BROMLEY.	245
BRUNNADER	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
BURDE	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
BURGER	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
BURNETT	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
BUTLER	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
BUTLER	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
BYERS	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
BYERS	LIQUID DIFFUSIVITIES IN THE GLYCOL-WATER SYSTEM, C H BYERS AND C J KING.	292
BYERS	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
B9C2H11)RE(CO)3CS	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
CADMIUM-111	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
CALCIUM	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
CALCIUM	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
CALCULATIONS	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
CALCULATIONS	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
CALCULATIONS	CALCULATIONS IN THE LIQUID-DROP THEORY OF NUCLEAR FISSION, J R NIX.	165
CALIFORNIUM	A NEW CALIFORNIUM ISOTOPE, CALIFORNIUM-242, T SIKKELAND AND A GHIORSO.	41
CALIFORNIUM	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
CALIFORNIUM-PLUS-3	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
CALIFORNIUM-PLUS-3	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
CALIFORNIUM-242	A NEW CALIFORNIUM ISOTOPE, CALIFORNIUM-242, T SIKKELAND AND A GHIORSO.	41

CALIFORNIUM-243	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIDORSO, J MALY, AND M J NURMIA.	42
CALIFORNIUM-244	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIDORSO, J MALY, AND M J NURMIA.	42
CALIFORNIUM-252	LONG-RANGE PARTICLES OF $Z=1$ TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
CALIFORNIUM-252	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
CALIFORNIUM-252	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
CARBON-10	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
CARBON-12(HELIUM-3)	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT E(HELIUM-3)=20 MEV, N F MANGELSON AND B G HARVEY.	97
CARBON-13	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
CARNALL	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
CARNALL	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
CARNEIRO	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
CERIUM	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
CERNY	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
CERNY	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
CERNY	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
CERNY	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
CERNY	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
CERNY	NUCLEAR REACTION Q VALUES, C MAPLES, G W GOTH, AND J CERNY.	123
CERNY	LONG-RANGE PARTICLES OF $Z=1$ TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
CERNY	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
CESIUM	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
CESIUM	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
CESIUM	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
CHANNEL	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
CHARGE-EXCHANGE	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142
CHARGED-PARTICLE	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
CHARRON	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
CHARRON	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
CHEMICAL	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231

CHEMICAL	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
CHEMICAL	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
CHLORIDE	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
CHLORIDE	THE CRYSTAL STRUCTURE OF CHLOROTHIODIAZYL CHLORIDE, S <sub>3</sub> N <sub>2</sub> CL <sub>2</sub> , A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
CHLORIDE	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
CHLOROTHIODIAZYL	THE CRYSTAL STRUCTURE OF CHLOROTHIODIAZYL CHLORIDE, S <sub>3</sub> N <sub>2</sub> CL <sub>2</sub> , A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
CIS	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
CLAMPITT	EXCITATION BY ELECTRON IMPACT OF LONG-LIVED STATES IN MOLECULES, R CLAMPITT AND A S NEWTON.	221
CLAMPITT	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
CLAMPITT	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
CLARK	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
CLARK	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
CLARK	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3, ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86
CLARK	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
CLARK	CYCLOTRON BEAM DIAGNOSTICS AND INSTRUMENTATION, D J CLARK.	305
CLARK	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
CLARK	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
CLARKSON	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
CLEM	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
COCHRAN	OPTICAL SPECTRA OF TRIPROTONIC CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
COHEN	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
COINCIDENCE	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMI, S G THOMPSON, AND J O RASMUSSEN.	189
COINCIDENCE	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
COLEMAN	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
COLLISIONS	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
COLLISIONS	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
COMPOUNDS	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI AND L A BROMLEY.	245
COMPOUNDS	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI.	373
COMPOUNDS	THE X-RAY CRYSTALLOGRAPHIC STRUCTURE DETERMINATION OF VARIOUS COMPOUNDS, R C PETERSEN.	378

COMPUTER	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
COMPUTER-AIDED	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
CONFIRMING	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
CONVECTIVE	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
CONVERSION	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
CONVERSION	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
CONWAY	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
CONWAY	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
CONWAY	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
CONWAY	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
CONWAY	OPTICAL SPECTRA OF TRIPROTONIC CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
CONZETT	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
CONZETT	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
CONZETT	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION T(D,HELIUM-3)2N, E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
CONZETT	INFLUENCE OF CYCLOTRON BEAM PROPERTIES ON EXPERIMENTS, H E CONZETT.	325
COOPER	ENVIRONMENTAL EFFECTS ON THE DECAY CONSTANT OF NIOBIUM-90M-SUB-1, J A COOPER.	374
COPPER	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
COPPER-PLUS-2	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
CORDI	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
CORE	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
COSPER	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
COSPER	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION. MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
COSPER	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
COSPER	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
COUNTERS	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
COUNTING	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
CROSS	HIGH-ENERGY DEUTERON-DEUTERON CROSS SECTIONS, V FRANCO.	141
CROSS	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142

CROWDER	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
CRYOSORPTION	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
CRYOSTAT	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
CRYSTAL	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
CRYSTAL	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
CRYSTAL	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
CRYSTAL	THE CRYSTAL STRUCTURE OF CHLOROTHODIAZYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
CRYSTALLOGRAPHIC	THE X-RAY CRYSTALLOGRAPHIC STRUCTURE DETERMINATION OF VARIOUS COMPOUNDS, R C PETERSEN.	378
CRYSTALLOGRAPHY	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
CUNNINGHAM	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231
CURIUM	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
CURIUM	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
CURIUM-244	OPTICAL SPECTRA OF TRIPOSITIVE CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
CW	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
CYCLOTRON	CYCLOTRON BEAM DIAGNOSTICS AND INSTRUMENTATION, D J CLARK.	305
CYCLOTRON	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
CYCLOTRON	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
CYCLOTRON	INFLUENCE OF CYCLOTRON BEAM PROPERTIES ON EXPERIMENTS, H E CONZETT.	325
CYCLOTRON	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
CYCLOTRON	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
CYTOSINE	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
D-SUB5/2)-SUP2-	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF (D-SUB5/2)-SUP2-SUB5+ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
DECAY	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
DECAY	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
DECAY	DECAY OF NEODYMIUM-139, J GILAT AND W J TREYTL.	20
DECAY	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
DECAY	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
DECAY	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
DECAY	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIORSO, J MALY, AND M J NURMIA.	42
DECAY	ENVIRONMENTAL EFFECTS ON THE DECAY CONSTANT OF NIOBIUM-90M-SUB-1, J A COOPER.	374
DECAY	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
DECOMPOSITION	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275

DEFLECTOR	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
DENSITIES	SHELL STRUCTURE AND NUCLEAR LEVEL DENSITIES, A GILBERT.	160
DESIGN	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
DESIGN	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
DESIGN	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
DESIGN	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
DETECTED	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
DETECTED	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEY STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
DETECTION	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
DETECTION	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
DETECTOR	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
DETECTOR	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
DETECTORS	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
DETECTORS	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
DETECTORS	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
DETRAZ	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
DETRAZ	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
DEUTERIUM	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
DEUTERON	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142
DEUTERON-DEUTERON	HIGH-ENERGY DEUTERON-DEUTERON CROSS SECTIONS, V FRANCO.	141
DEUTERONS	SMALL-ANGLE HIGH-ENERGY SCATTERING BY DEUTERONS, V FRANCO.	139
DEUTERONS	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
DEVICE	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
DIAGNOSTICS	CYCLOTRON BEAM DIAGNOSTICS AND INSTRUMENTATION, D J CLARK.	305
DIALYSIS	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
DIALYSIS	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN.	377
DIAMOND	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
DIAMOND	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
DIAMOND	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
DIAMOND	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
DIAQUOTETRACHLORO-	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
DIFFUSIVITIES	LIQUID DIFFUSIVITIES IN THE GLYCOL-WATER SYSTEM, C H BYERS AND C J KING.	292

DIGITAL	DIGITAL ANALYSIS OF PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND D A SHIRLEY.	206
DIGITAL	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
DIPOLE	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
DIPOLE	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
DISPERSION	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
DISPERSION	THE DISPERSION OF BACTERIA, F G RUST AND C R WILKE.	297
DISPERSION	THE DISPERSION OF BACTERIA, F G RUST.	378
DROP	THE NORMAL MODES OF OSCILLATION OF A UNIFORMLY CHARGED DROP ABOUT ITS SADDLE-POINT SHAPE, J R NIX.	167
E(HELIUM-3)=20	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT E(HELIUM-3)=20 MEV, N F MANGELSON AND B G HARVEY.	97
EASLEY	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
EASLEY	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
EASLEY	A 35-GHZ SUPERHETERODYNE ELECTRON-SPIN-RESONANCE SPECTROMETER SYSTEM, W EASLEY AND R LAPIERRE.	359
ECONOMIC	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
ECONOMIC	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
EDELSTEIN	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
EDELSTEIN	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
EDELSTEIN	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
EDELSTEIN	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
EDWARDS	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
ELAD	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
ELASTIC	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
ELASTIC	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
ELECTRIC	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
ELECTRIC-RESONANCE	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
ELECTRON	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
ELECTRON	EXCITATION BY ELECTRON IMPACT OF LONG-LIVED STATES IN MOLECULES, R CLAMPITT AND A S NEWTON.	221
ELECTRON	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
ELECTRON	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
ELECTRON	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
ELECTRON-SPIN-	35-GHZ SUPERHETERODYNE ELECTRON-SPIN-RESONANCE SPECTROMETER SYSTEM, W EASLEY AND R LAPIERRE.	359

ELECTRONIC	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
ELECTRONS	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
ELEMENT	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231
ELEMENT-102	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
ELEMENTS	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
ELEMENTS	FISSION PROPERTIES OF SOME ELEMENTS BELOW RADIUM, A KHODAI-JOOPARI.	377
ELO	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
EMANATION	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
EMISSION	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
EMITTED	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
EMITTED	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
EMITTED	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
ENERGIES	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
ENERGIES	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
ENERGIES	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
ENERGY	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
ENERGY	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
ENERGY	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
ENERGY	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
ENERGY	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
ENERGY-MASS	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
ERBIUM	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
EUROPIUM	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
EWAN	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
EWAN	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
EXCITATION	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
EXCITATION	EXCITATION BY ELECTRON IMPACT OF LONG-LIVED STATES IN MOLECULES, R CLAMPITT AND A S NEWTON.	221
EXCITATION	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240

EXCITATION	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
EXCITATIONS	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
EXTRACTION	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
EXTRACTION	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
EXTRACTION FADLEY	REGENERATIVE BEAM EXTRACTION, H KIM. CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	321 233
FIELD-EFFECT	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
FILTRATION	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A BHAGAT AND C R WILKE.	295
FILTRATION FINAL-STATE	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A K BHAGAT. THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3,ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	372 86
FIRST-CHANGE-	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
FISSION	CALCULATIONS IN THE LIQUID-DROP THEORY OF NUCLEAR FISSION, J R NIX.	165
FISSION	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
FISSION	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
FISSION	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
FISSION	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
FISSION	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
FISSION	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
FISSION	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
FISSION	FISSION PROPERTIES OF SOME ELEMENTS BELOW RADIUM, A KHODAI-JOOPARI.	377
FISSION	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
FLATTENING	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J Maly AND J R NIX.	154
FLOW	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
FLOW	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
FLUID	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
FLUID-PHASE	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
FLUID-PHASE FLUIDIZATION	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN. STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	377 285
FLUGRIDE	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
FLUORIDE	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
FLUCRIDE	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254

FLUORIDE	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
FLUORINE-20	ISOTOPIIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
FORMULA	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
FOUR-NEUTRON	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
FRAGMENT	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
FRAGMENT	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
FRANCIUM	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
FRANCO	SMALL-ANGLE HIGH-ENERGY SCATTERING BY DEUTERONS, V FRANCO.	139
FRANCO	HIGH-ENERGY DEUTERON-DEUTERON CROSS SECTIONS, V FRANCO.	141
FRANCO	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142
FRANCO	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
FRIED	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
FUJITA	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
GAMMA	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
GAMMA	TABLES OF COEFFICIENTS FOR ANGULAR DISTRIBUTION OF GAMMA RAYS FROM ALIGNED NUCLEI, T YAMAZAKI.	69
GAMMA-RAY	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
GAMMA-RAY	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
GAMMA-VIBRATIONAL	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
GARRISON	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
GARRISON	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278
GARRISON	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
GARRISON	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
GAS	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
GAS-LIQUID	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
GASES	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
GASES	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
GATTI	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170

GATTI	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
GATTI	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
GENERAL-PURPOSE GERMANIUM	FOUR GENERAL-PURPOSE MODULAR INSTRUMENTS, R ZANE.	364
	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
GERMANIUM	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
GHIORSO	A NEW CALIFORNIUM ISOTOPE, CALIFORNIUM-242, T SIKKELAND AND A GHIORSO.	41
GHIORSO	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIORSO, J Maly, AND M J NURMIA.	42
GHIORSO	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
GILAT	DECAY OF NEODYMIUM-139, J GILAT AND W J TREYTL.	20
GILBERT	SHELL STRUCTURE AND NUCLEAR LEVEL DENSITIES, A GILBERT.	160
GLAUBER	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142
GLENDENNING	INELASTIC SCATTERING, N K GLENDENNING.	146
GLENDENNING	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
GLENDENNING	ANALYSIS OF THE LEAD-208(P,T) REACTION, N K GLENDENNING.	149
GLYCOL-WATER	LIQUID DIFFUSIVITIES IN THE GLYCOL-WATER SYSTEM, C H BYERS AND C J KING.	292
GOLD	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
GOLD-197 (P,2N)	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
GOLD-197 (P,4N)	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
GOTH	NUCLEAR REACTION Q VALUES, C MAPLES, G W GOTH, AND J CERNY.	123
GOULDING	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
GOULDING	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
GOULDING	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
GOULDING	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
GOULDING	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
GREEN	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
GROUND-STATE	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
GRUBER	OPTICAL SPECTRA OF TRIPOSITIVE CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
GRUNDER	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
GUTMACHER	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
GUTMACHER	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246

HAEISHI	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HAEISHI.	256
HAGSTROM	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
HAMILTONIANS	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
HARVEY	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF $(0-SUB5/2)-SUP2-SUB5+$ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
HARVEY	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT $E(HELIUM-3)=20$ MEV, N F MANGELSON AND B G HARVEY.	97
HARVEY	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
HARVEY	PRODUCTION OF THE $3+$ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
HARVEY	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, O N JARVIS, J MAHONEY, AND J VALENTIN.	130
HARVEY	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
HARVEY	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
HARVEY	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
HAUSMANN	STUDIES OF OXYGEN-INITIATED PYROLYSIS OF HYDROCARBONS, E D HAUSMANN AND C J KING.	274
HAVERFIELD	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
HAVERFIELD	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
HEAD-ON	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
HEAT	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
HEATS	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI AND L A BROMLEY.	245
HEATS	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI.	373
HEAVY-ION	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
HEAVY-ION	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
HEAVY-ION	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
HEBERT	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
HELIUM-NEON	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
HELIUM-3	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
HELIUM-3	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
HELIUM-3	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
HELIUM-3,ALPHA	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
HELIUM-3(HELIUM-3--THE 2P	FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3,ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86

HELIUM-4-INDUCED	EXPERIMENTAL DETERMINATION OF FIRST-CHARGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
HELIUM-8	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
HENDRIE	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
HENDRIE	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
HENDRIE	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
HENDRIE	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
HENDRIE	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, O N JARVIS, J MAHONEY, AND J VALENTIN.	130
HENDRIE	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
HENDRIE	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
HIGH-ENERGY	SMALL-ANGLE HIGH-ENERGY SCATTERING BY DEUTERONS, V FRANCO.	139
HIGH-ENERGY	HIGH-ENERGY DEUTERON-DEUTERON CROSS SECTIONS, V FRANCO.	141
HIGH-ENERGY	HIGH-ENERGY DEUTERON CROSS SECTIONS -- CHARGE-EXCHANGE EFFECTS, V FRANCO AND R J GLAUBER.	142
HIGH-ENERGY	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
HIGH-ENERGY	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
HIGH-VOLTAGE	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
HINTZ	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
HOLIAN	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278
HOLIAN	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
HOLLANDER	TABLE OF ISOTOPES, C M LEDERER, J M HOLLANDER, AND I PERLMAN.	1
HOLLANDER	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
HOLLANDER	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
HOLLIDAY	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
HOLLOWELL	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
HOLLOWELL	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
HOPKINS	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
HOPKINS	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
HOPKINS	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
HOPKINS	THE CRYSTAL STRUCTURE OF CHLOROTHIO DIAZYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
HOPKINS	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
HUFFMAN	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238

HUIZENGA	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
HULET	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
HULET	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
HYDE	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, E K HYDE, AND K VALLI.	23
HYDE	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
HYDE	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
HYDE	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
HYDE	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
HYDROCARBONS	STUDIES OF OXYGEN-INITIATED PYROLYSIS OF HYDROCARBONS, E D HAUSMANN AND C J KING.	274
HYPERFINE	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
HYPERFINE	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
HYPERFINE	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
HYPOTHETICAL	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
HYPOTHETICAL	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
IKEGAMI	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
INCREMENTAL	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
INDEX	KEYWORD-PLUS-TITLE SUBJECT AND AUTHOR INDEX.	406
INELASTIC	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
INELASTIC	INELASTIC SCATTERING, N K GLENDENNING.	146
INELASTIC	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
INELASTIC	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
INEXPENSIVE	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
INORGANIC	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI AND L A BROMLEY.	245
INORGANIC	AN IMPROVED CORRELATION FOR THE HEATS OF FORMATION OF INORGANIC COMPOUNDS, W BRELVI.	373
INSTRUMENTATION	CYCLOTRON BEAM DIAGNOSTICS AND INSTRUMENTATION, D J CLARK.	305
INSTRUMENTATION	MOSSBAUER-EFFECT INSTRUMENTATION, R ZANE.	366
INSTRUMENTS	FOUR GENERAL-PURPOSE MODULAR INSTRUMENTS, R ZANE.	364
INTENSITY	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
IODINE	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
IONIZED	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
IONS	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
IONS	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224

IRIDIUM-188	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
ISOMERIC	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
ISOMERIC	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
ISOSPIN	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
ISOTOPE	A NEW CALIFORNIUM ISOTOPE, CALIFORNIUM-242, T SIKKELAND AND A GHIORSO.	41
ISOTOPES	TABLE OF ISOTOPES, C M LEDERER, J M HOLLANDER, AND I PERLMAN.	1
ISOTOPES	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, E K HYDE, AND K VALLI.	23
ISOTOPES	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
ISOTOPES	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
ISOTOPES	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
ISOTOPES	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
ISOTOPES	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
ISOTOPES	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
ISOTOPES	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
ISOTOPES	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
ISOTOPES	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, D N JARVIS, AND J MAHONEY.	147
ISOTOPES	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSIION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
ISOTOPES	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
ISOTOPES	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
ISOTOPIC	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
J-DEPENDENCE	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
JARED	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMI, R L WATSON, R C JARED, AND S G THOMPSON.	46
JARVIS	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
JARVIS	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, D N JARVIS, J MAHONEY, AND W TIVOL.	133
JARVIS	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, D N JARVIS, AND J MAHONEY.	147
JAYKO	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
KAPOOR	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSIION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
KEENAN	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245

KEYWORD-PLUS-TITLE	KEYWORD-PLUS-TITLE SUBJECT AND AUTHOR INDEX.	406
KHODAI-JOOPARI	FISSION PROPERTIES OF SOME ELEMENTS BELOW RADIUM, A KHODAI-JOOPARI.	377
KIM	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
KIM	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
KIM	REGENERATIVE BEAM EXTRACTION, H KIM.	321
KINETIC	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
KINETIC	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
KING	STUDIES OF OXYGEN-INITIATED PYROLYSIS OF HYDROCARBONS, E D HAUSMANN AND C J KING.	274
KING	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
KING	LIQUID DIFFUSIVITIES IN THE GLYCOL-WATER SYSTEM, C H BYERS AND C J KING.	292
KING	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
KLEIN	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
KLEIN	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
KORNER	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
LAMB	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
LAMB	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
LAMINAR	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
LANDIS	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
LANDIS	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
LANDIS	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
LANTHANUM	OPTICAL SPECTRA OF TRIPROTONIC CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
LANTHANUM	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
LAPIERRE	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
LAPIERRE	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
LASER	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
LASER	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
LATIMER	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
LAW	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
LEAD-208 (P,T)	ANALYSIS OF THE LEAD-208(P,T) REACTION, N K GLENDENNING.	149
LEDERER	TABLE OF ISOTOPES, C M LEDERER, J M HOLLANDER, AND I PERLMAN.	1

LEDERER	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
LEE	ISOTOPIIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ..	240
LEE	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
LIGHTER	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
LINKING	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
LIQUID	LIQUID DIFFUSIVITIES IN THE GLYCOL-WATER SYSTEM, C H BYERS AND C J KING.	292
LIQUID	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
LIQUID	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
LIQUID-DROP	CALCULATIONS IN THE LIQUID-DROP THEORY OF NUCLEAR FISSION, J R NIX.	165
LITHIUM	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
LITHIUM	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
LITHIUM-DRIFTED	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
LITHIUM-DRIFTED	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
LITHIUM-11	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
LITHIUM-7	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
LONG-RANGE	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
LOTHROP	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
LOUGHEED	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
LOUGHEED	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
LOVAS	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
LOW-NOISE	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBURG, AND W L CROWDER.	358
LU	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF (D-SUB5/2)-SUP2-SUB5+ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
LU	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
LU	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
LUTETIUM-177M	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
MACHINE	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
MAERTENS	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
MAGIC	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157

MAGNESIUM-22	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
MAGNESIUM-24	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
MAGNESIUM-24I-	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
MAGNESIUM-26 -	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
MAGNETIC	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
MAGNETIC	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
MAGNETIC	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
MAGNETIC	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
MAGNETIC	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
MAHONEY	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
MAHONEY	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
MAHONEY	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, D N JARVIS, J MAHONEY, AND W TIVOL.	133
MAHONEY	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, D N JARVIS, AND J MAHONEY.	147
MAIN-CHAIN	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
MALCNE	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
MALY	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIORSO, J MALY, AND M J NURMIA.	42
MALY	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
MANGELSON	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT E(HELIUM-3)=20 MEV, N F MANGELSON AND B G HARVEY.	97
MANGELSON	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
MANGELSON	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
MAPLES	NUCLEAR REACTION Q VALUES, C MAPLES, G W GOTH, AND J CERNY.	123
MARKOWITZ	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
MARKOWITZ	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
MARRUS	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
MASS	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
MASS	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
MASS	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
MASS	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
MASS	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194

MASS	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
MASS	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
MASS	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
MASS	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN.	377
MASSES	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
MASSES	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
MATTHIAS	G FACTOR OF THE 243-KEV LEVEL IN YTTRIUM-86, W J TREYTL AND E MATTHIAS.	17
MATTHIAS	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
MATTHIAS	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
MATTHIAS	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
MATTHIAS	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
MATTHIAS	DIGITAL ANALYSIS OF PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND D A SHIRLEY.	206
MATTHIAS	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
MATTHIAS	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
MCCOLM	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
MCGRATH	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
MCKEE	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
MCKEE	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
MCKEE	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3, ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86
MCLAUGHLIN	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
MCLAUGHLIN	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
MCLAUGHLIN	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
MEASUREMENT	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
MEASUREMENTS	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
MEASUREMENTS	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
MECHANICAL	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
MELDNER	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
MERCURY	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
MERCURY-194	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67

MERCURY-196	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
MERIWETHER	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
METAL	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
METALS	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
MICROCALORIMETER	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
MICROSCOPIC	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
MILLER	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
MINER	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
MODULAR	FOUR GENERAL-PURPOSE MODULAR INSTRUMENTS, R ZANE.	364
MOLECULAR	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
MOLECULAR	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
MOLECULAR-BEAM	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
MOLECULES	EXCITATION BY ELECTRON IMPACT OF LONG-LIVED STATES IN MOLECULES, R CLAMPITT AND A S NEWTON.	221
MONOHYDRATE	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
MORETTO	EXPERIMENTAL DETERMINATION OF FIRST-CHARGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
MORETTO	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
MORSS	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
MOSS	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
MOSSBAUER-EFFECT	MOSSBAUER-EFFECT INSTRUMENTATION, R ZANE.	366
NAKAMURA	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
NAKAMURA	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
NAKAMURA	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
NEODYMIUM-139	DECAY OF NEODYMIUM-139, J GILAT AND W J TREYTL.	20
NEPTUNIUM-237	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
NEUTRON-DEFICIENT	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, E K HYDE, AND K VALLI.	23
NEUTRON-DEFICIENT	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
NEUTRON-DEFICIENT	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
NEUTRON-DEFICIENT	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
NEUTRON-DEFICIENT	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
NEUTRON-DEFICIENT	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
NEUTRON-NEUTRON	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION T(D,HELIUM-3)2N, E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91

NEUTRONS	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
NEWMAN	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
NEWMAN	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN.	377
NEWTON	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
NEWTON	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
NEWTON	EXCITATION BY ELECTRON IMPACT OF LONG-LIVED STATES IN MOLECULES, R CLAMPITT AND A S NEWTON.	221
NEWTON	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
NEWTON	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
NICKEL	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, D N JARVIS, AND J MAHONEY.	147
NICKEL	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
NICKEL	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
NICOL	OPTICAL SPECTRA OF TRIPROTONIC CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
NIOBIUM-90M-SUB-1	ENVIRONMENTAL EFFECTS ON THE DECAY CONSTANT OF NIOBIUM-90M-SUB-1, J A COOPER.	374
NITROGEN	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
NITROGEN-14	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT E(HELIUM-3)=20 MEV, N F MANGELSON AND B G HARVEY.	97
NITROGEN-14	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
NITROGEN-14-	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
NIX	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
NIX	CALCULATIONS IN THE LIQUID-DROP THEORY OF NUCLEAR FISSON, J R NIX.	165
NIX	THE NORMAL MODES OF OSCILLATION OF A UNIFORMLY CHARGED DROP ABOUT ITS SADDLE-POINT SHAPE, J R NIX.	167
NOBLE	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
NOBLE	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
NSEC	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
NSEC	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSON OF CALIFORNIUM-252, R L WATSON.	379
NUCLEAR	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
NUCLEAR	NUCLEAR REACTION Q VALUES, C MAPLES, G W GOTH, AND J CERNY.	123
NUCLEAR	SHELL STRUCTURE AND NUCLEAR LEVEL DENSITIES, A GILBERT.	160
NUCLEAR	CALCULATIONS IN THE LIQUID-DROP THEORY OF NUCLEAR FISSON, J R NIX.	165
NUCLEAR	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
NUCLEAR	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
NUCLEAR	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
NUCLEAR	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212

NUCLEAR	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
NUCLEAR	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
NUCLEAR	NUCLEAR SPECTROSCOPIC STUDIES OF SOME VERY HEAVY ODD-MASS NUCLIDES, I AHMAD.	371
NUCLEI	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
NUCLEI	TABLES OF COEFFICIENTS FOR ANGULAR DISTRIBUTION OF GAMMA RAYS FROM ALIGNED NUCLEI, T YAMAZAKI.	69
NUCLEI	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
NUCLEI	CALCULATIONS OF THE FLATTENING OF IDEALIZED NUCLEI DURING HEAD-ON COLLISIONS, J MALY AND J R NIX.	154
NUCLEI	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
NUCLEI	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
NUCLEI	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
NUCLIDES	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF (D-SUB5/2)-SUP2-SUB5+ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
NUCLIDES	NUCLEAR SPECTROSCOPIC STUDIES OF SOME VERY HEAVY ODD-MASS NUCLIDES, I AHMAD.	371
NURMIA	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
NURMIA	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIORSO, J MALY, AND M J NURMIA.	42
NURMIA	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
ODD-MASS	NUCLEAR SPECTROSCOPIC STUDIES OF SOME VERY HEAVY ODD-MASS NUCLIDES, I AHMAD.	371
ODD-MASS	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
OLSEN	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
OPTICAL	OPTICAL SPECTRA OF TRIPROTONIC CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
OPTICAL	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
OPTICAL	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
OSCILLATION	THE NORMAL MODES OF OSCILLATION OF A UNIFORMLY CHARGED DROP ABOUT ITS SADDLE-POINT SHAPE, J R NIX.	167
OSMIUM	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
OSMIUM-182	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
OSMIUM-184	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
OSMIUM-184	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
OSMIUM-186	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
OSMIUM-188	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
OSMIUM-188	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
OXIDATION	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278
OXIDATION	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279

OXIDATION	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
OXIDE	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
OXYGEN	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
OXYGEN	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
OXYGEN-INITIATED	STUDIES OF OXYGEN-INITIATED PYROLYSIS OF HYDROCARBONS, E D HAUSMANN AND C J KING.	274
OXYGEN-14	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
OXYGEN-18(HELIUM-	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
OXYGENATED	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278
P-P	THE SUP-1-S-SUBZERO P-P SCATTERING PARAMETERS OBTAINED FROM A REANALYSIS OF EXPERIMENTAL DATA, R J SLOBODRIAN.	135
P,HELIUM-3	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
P,T	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
PALLADIUM	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
PARAMAGNETIC	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
PARAMAGNETIC	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
PARITY	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
PARSONS	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
PARTICLE,XN	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
PARTICLES	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
PARTICLES	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
PARTICLES	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A BHAGAT AND C R WILKE.	295
PARTICLES	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A K BHAGAT.	372
PARTICULATE	STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	285
PEAKS	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
PEHL	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
PEHL	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
PEHL	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347

PEHL	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
PELLISSIER	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
PEPTIDES	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
PEPTIDES	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
PERLMAN	TABLE OF ISOTOPES, C M LEDERER, J M HOLLANDER, AND I PERLMAN.	1
PERLMAN	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
PERLMAN	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
PERTURBED	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
PERTURBED	DIGITAL ANALYSIS OF PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND D A SHIRLEY.	206
PERTURBED	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
PETERSON	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231
PETTERSEN	THE X-RAY CRYSTALLOGRAPHIC STRUCTURE DETERMINATION OF VARIOUS COMPOUNDS, R C PETTERSEN.	378
PHOSPHOROUS-28	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
PHYSICAL	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
PLASIL	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
PLATINUM	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
PLOTTER	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
PLUTONIUM	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
POGGENBURG	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
POLARIZATION	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
POLARIZED	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
POLARIZED	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
POLONIUM	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
POLONIUM	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
POPULATED	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
POPULATED	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
POSKANZER	NEW ISOTOPES, LITHIUM-11, BORON-14, AND BORON-15, A M POSKANZER, S W COSPER, E K HYDE, AND J CERNY.	37
POTASSIUM	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254

POTASSIUM	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
POWER	HEAVY-ION IDENTIFICATION USING THE POWER LAW TECHNIQUE, J CERNY, S W COSPER, G W BUTLER, H BRUNNADER, R L MCGRATH, AND F S GOULDING.	335
POWER	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
PRECISE	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
PREDICTIONS	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
PREPARATION	PREPARATION OF OXYGEN STANDARDS FOR CHARGED-PARTICLE ACTIVATION ANALYSIS, J F LAMB, D M LEE, AND S S MARKOWITZ.	242
PRINTED-CIRCUIT	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
PROBABILITY	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
PRODUCTS	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
PROGRAM	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
PROPERTIES	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
PROPERTIES	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHORSO, J MALY, AND M J NURMIA.	42
PROPERTIES	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231
PROPERTIES	INFLUENCE OF CYCLOTRON BEAM PROPERTIES ON EXPERIMENTS, H E CONZETT.	325
PROPERTIES	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
PROPERTIES	FISSION PROPERTIES OF SOME ELEMENTS BELOW RADIUM, A KHODAI-JODPARI.	377
PROTACTINIUM	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
PROTON	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
PROTON	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, O N JARVIS, AND J MAHONEY.	147
PROTON-NEUTRON	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF (D-SUB5/2)-SUP2-SUB5+ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
PROTON-PROTON	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
PROTONS	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
PROTONS	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
PROTONS	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
PRUSSIN	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
PULSE-HEIGHT	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
PULSED	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
PUMP	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353
PURINE	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADICLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278

PUZZLE	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
PYRIDINE	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
PYROLYSIS	STUDIES OF OXYGEN-INITIATED PYROLYSIS OF HYDROCARBONS, E D HAUSMANN AND C J KING.	274
QUADRUPOLE	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
QUASI-METASTABLE	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPIITT.	224
RADIATION	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDDO.	348
RADIATION-INDUCED	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
RADIATION-INDUCED	THE RADIATION-INDUCED OXIDATION OF PEPTIDES IN AQUEOUS SOLUTION, H L ATKINS, W BENNETT-CORNIEA, AND W M GARRISON.	281
RADIOLYSIS	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
RADIOLYSIS	IDENTIFICATION OF A SPECIFIC MODE OF OXIDATION IN THE RADIOLYSIS OF THE PURINE BASES IN OXYGENATED AQUEOUS SOLUTION, J HOLIAN AND W M GARRISON.	278
RADIUM	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
RADIUM	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
RADIUM	FISSION PROPERTIES OF SOME ELEMENTS BELOW RADIUM, A KHODAI-JOOPARI.	377
RAJNAK	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
RASMUSSEN	ENERGY LEVELS OF NEPTUNIUM-237 (I) THE ALPHA DECAY OF AMERICIUM-241, C M LEDERER, J K POGGENBURG, F ASARO, J O RASMUSSEN, AND I PERLMAN.	4
RASMUSSEN	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
RASMUSSEN	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
RASMUSSEN	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
RASMUSSEN	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
REACTION	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3,ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86
REACTION	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION T(0,HELIUM-3)2N, E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
REACTION	THE CARBON-12(HELIUM-3,P) NITROGEN-14 REACTION AT E(HELIUM-3)=20 MEV, N F MANGELSON AND B G HARVEY.	97
REACTION	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
REACTION	A J-DEPENDENCE IN THE (HELIUM-3,ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
REACTION	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
REACTION	NUCLEAR REACTION Q VALUES, C MAPLES, G W GOTH, AND J CERNY.	123
REACTION	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
REACTION	ANALYSIS OF THE LEAD-208(P,T) REACTION, N K GLENDENNING.	149

REACTION	ISOTOPIC OXYGEN ANALYSIS BY HELIUM-3 ACTIVATION -- EXCITATION FUNCTION FOR THE REACTION OXYGEN-18(HELIUM-3,P) FLUORINE-20, J F LAMB, D M LEE, AND S S MARKOWITZ.	240
REACTIONS	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
REACTIONS	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
REACTIONS	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67
REACTIONS	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T Ewan.	76
REACTIONS	A STUDY OF MASS 5 AND 7 NUCLEI BY (P,T) AND (P,HELIUM-3) REACTIONS ON LITHIUM-7 AND BERYLLIUM-9, J CERNY, C DETRAZ, AND R H PEHL.	112
REALISTIC	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
REANALYSIS	THE SUP-1-S-SUBZERO P-P SCATTERING PARAMETERS OBTAINED FROM A REANALYSIS OF EXPERIMENTAL DATA, R J SLOBODRIAN.	135
REED	EXCITED STATES IN BERYLLIUM-6 AND CARBON-10, N F MANGELSON, F AJZENBERG-SELOVE, M F REED, AND C C LU.	106
REED	THE MASSES AND EXCITED STATES OF ALUMINIUM-24 AND PHOSPHOROUS-28, N F MANGELSON, M F REED, C C LU, AND F AJZENBERG-SELOVE.	109
REED	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
REGENERATIVE	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
REGENERATIVE	REGENERATIVE BEAM EXTRACTION, H KIM.	321
REGENERATIVE	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
RESOLUTION	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
RESOLUTION	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
RESONANCE	NUCLEAR MAGNETIC RESONANCE IN POLARIZED NUCLEI, E MATTHIAS AND R J HOLLIDAY.	197
RESONANCE	NUCLEAR MAGNETIC RESONANCE DETECTED BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND B A OLSEN.	199
RESONANCE	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
RESONANCE	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
RESONANCE	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
RESONANCE	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
RESONANCE	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
RHENIUM-188	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
RHODIUM-100	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
ROSENBLUM	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
ROTATIONAL	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48

ROTATIONAL	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
ROTATIONAL	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
RUBIDIUM	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
RUBIDIUM	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LCVAS, AND K STREET, JR.	254
RUST	THE DISPERSION OF BACTERIA, F G RUST AND C R WILKE.	297
RUST	THE DISPERSION OF BACTERIA, F G RUST.	378
RUTHENIUM-99	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
SADDLE	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MGRETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
SADDLE-POINT	THE NORMAL MODES OF OSCILLATION OF A UNIFORMLY CHARGED DROP ABOUT ITS SADDLE-POINT SHAPE, J R NIX.	167
SAKAI	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
SAMARIUM-152	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
SAMARIUM-154	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
SATO	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
SAUCEDO	GERMANIUM RADIATION DETECTOR AND HIGH RESOLUTION SYSTEM DEVELOPMENT, R H PEHL, R C CORDI, F S GOULDING, D A LANDIS, W A MAERTENS, D F MALONE, AND G I SAUCEDO.	348
SAXTON	STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	285
SCATTERING	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
SCATTERING	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
SCATTERING	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
SCATTERING	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION $T(D, \text{HELIUM-3})^2N$ , E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
SCATTERING	PRODUCTION OF THE $3+$ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
SCATTERING	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, D N JARVIS, J MAHONEY, AND W TIVOL.	133
SCATTERING	THE SUP-1-S-SUBZERO P-P SCATTERING PARAMETERS OBTAINED FROM A REANALYSIS OF EXPERIMENTAL DATA, R J SLOBODRIAN.	135
SCATTERING	SMALL-ANGLE HIGH-ENERGY SCATTERING BY DEUTERONS, V FRANCO.	139
SCATTERING	DOUBLE SCATTERING IN HIGH-ENERGY ELASTIC COLLISIONS WITH DEUTERONS, V FRANCO AND E COLEMAN.	144
SCATTERING	INELASTIC SCATTERING, N K GLENDENNING.	146
SCATTERING	TEST OF A MICROSCOPIC DESCRIPTION OF NICKEL ISOTOPES BY INELASTIC PROTON SCATTERING, N K GLENDENNING, B G HARVEY, D L HENDRIE, D N JARVIS, AND J MAHONEY.	147
SCATTERING	EXCITATION OF DIPOLE STATES BY INELASTIC ALPHA SCATTERING, J M MOSS AND B G HARVEY.	336
SCIAMANNA	A SEARCH FOR AUTO-IONIZING STATES OF HIGHLY EXCITED IONS OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	222
SCIAMANNA	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
SCISSION	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275

SEMICONDUCTOR	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMI, R L WATSON, R C JARED, AND S G THOMPSON.	46
SEMICONDUCTOR	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
SEMICONDUCTOR	I. THE MEASUREMENT OF INTERNAL CONVERSION COEFFICIENTS UTILIZING SEMICONDUCTOR DETECTORS. II. DECAY SCHEME STUDIES OF THE ODD-MASS GOLD ISOTOPES, A J HAVERFIELD.	376
SEPARATION	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256
SESQUIOXIDE	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
SHAPE-DEPENDENT	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
SHELL	SHELL STRUCTURE AND NUCLEAR LEVEL DENSITIES, A GILBERT.	160
SHELL-MODEL	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
SHIELD	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
SHIELD	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
SHIELD	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION T(D,HELIUM-3)2N, E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
SHIRLEY	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
SHIRLEY	DIGITAL ANALYSIS OF PERTURBED ANGULAR CORRELATIONS, E MATTHIAS AND D A SHIRLEY.	206
SHIRLEY	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
SHIRLEY	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
SHIRLEY	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
SHIRLEY	CHEMICAL EFFECTS ON CORE ELECTRON BINDING ENERGIES IN IODINE AND EUROPIUM, C S FADLEY, S B M HAGSTROM, J M HOLLANDER, D A SHIRLEY, AND M P KLEIN.	233
SIKKELAND	A NEW CALIFORNIUM ISOTOPE, CALIFORNIUM-242, T SIKKELAND AND A GHIORSO.	41
SIKKELAND	DECAY PROPERTIES OF CALIFORNIUM-243 AND CALIFORNIUM-244, T SIKKELAND, A GHIORSO, J MALY, AND M J NURMIA.	42
SIKKELAND	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
SILICON	HIGH-VOLTAGE LITHIUM-DRIFTED SILICON DETECTORS, R P LOTHROP AND F S GOULDING.	349
SINGLE-CRYSTAL	ENERGY LEVELS OF SINGLE-CRYSTAL ERBIUM OXIDE, K RAJNAK AND J G CONWAY.	247
SINGLE-PARTICLE	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
SIZING	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
SLOBODRIAN	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
SLOBODRIAN	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
SLOBODRIAN	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3,ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLLO.	86
SLOBODRIAN	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88

SLOBODRIAN	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION $T(D, \text{HELIUM-3})2N$ , E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
SLOBODRIAN	THE SUP-1-S-SUBZERO P-P SCATTERING PARAMETERS OBTAINED FROM A REANALYSIS OF EXPERIMENTAL DATA, R J SLOBODRIAN.	135
SMALL-ANGLE SMITH	SMALL-ANGLE HIGH-ENERGY SCATTERING BY DEUTERONS, V FRANCO. REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	139 317
SODIUM	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
SOKGL	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
SOLID	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
SPECIAL-PURPOSE	AN INEXPENSIVE SPECIAL-PURPOSE COMPUTER FOR LINKING PULSE-HEIGHT ANALYZERS WITH A DIGITAL INCREMENTAL PLOTTER, R LAPIERRE AND M NAKAMURA.	359
SPECTRA	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
SPECTRA	THE ABSORPTION SPECTRA OF BERKELIUM IN SOLUTION, R G GUTMACHER, E K HULET, R LOUGHEED, J G CONWAY, W T CARNALL, D COHEN, T K KEENAN, AND R D BAYBARZ.	245
SPECTRA	OPTICAL SPECTRA OF TRIPOSITIVE CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
SPECTRA	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
SPECTRA	THE MOLECULAR-BEAM ELECTRIC-RESONANCE SPECTRA OF LITHIUM FLUORIDE, SODIUM FLUORIDE, AND POTASSIUM CHLORIDE, C D HOLLOWELL.	376
SPECTROMETER	A SEMICONDUCTOR DETECTOR CRYOSTAT, C E MINER. HIGH RESOLUTION BETA- AND GAMMA-RAY SPECTROMETER, E ELAD AND M NAKAMURA.	355
SPECTROMETER	A 35-GHZ SUPERHETERODYNE ELECTRON-SPIN-RESONANCE SPECTROMETER SYSTEM, W EASLEY AND R LAPIERRE.	359
SPECTROPHOTOMETRIC	EXTRACTION OF METAL PYRIDINE AZIDES, SPECTROPHOTOMETRIC DETERMINATION OF COPPER, NICKEL AND PALLADIUM, R G CLEM AND E H HUFFMAN.	238
SPECTROSCOPIC	A J-DEPENDENCE IN THE (HELIUM-3, ALPHA) REACTION CONFIRMING NEW SPECTROSCOPIC ASSIGNMENTS IN NITROGEN-14 AND CARBON-13, G C BALL AND J CERNY.	118
SPECTROSCOPIC	NUCLEAR SPECTROSCOPIC STUDIES OF SOME VERY HEAVY ODD-MASS NUCLIDES, I AHMAD.	371
SPECTROSCOPY	OPTICAL AND ELECTRON PARAMAGNETIC RESONANCE SPECTROSCOPY OF CURIUM IN CALCIUM FLUORIDE, N EDELSTEIN, W EASLEY, AND R MCLAUGHLIN.	248
SPECTRUM	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
SPECTRUM	THE SOLUTION ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE, J G CONWAY, S FRIED, R M LATIMER, R MCLAUGHLIN, R G GUTMACHER, W T CARNALL, AND P FIELDS.	246
SPECTRUM	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
SPIN	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
SPIN	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
SPONTANEOUS	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
STARK	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253

STATISTICAL	STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	285
STEERING	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
STEPHENS	GROUND-STATE (QUASI-) ROTATIONAL LEVELS IN LIGHT OSMIUM, PLATINUM, AND MERCURY NUCLEI, J BURDE, R M DIAMOND, AND F S STEPHENS.	48
STEPHENS	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
STEPHENS	THE ROTATIONAL STATES OF OSMIUM-184, OSMIUM-186, AND OSMIUM-188, J O NEWTON, F S STEPHENS AND R M DIAMOND.	60
STEPHENS	NUCLEAR ALIGNMENT IN HEAVY-ION REACTIONS, R M DIAMOND, E MATTHIAS, J O NEWTON, AND F S STEPHENS.	64
STREET, JR	MOLECULAR BEAM ELECTRIC RESONANCE EXPERIMENTS ON LITHIUM FLUORIDE, POTASSIUM CHLORIDE, RUBIDIUM FLUORIDE, AND CESIUM FLUORIDE, A J HEBERT, C D HOLLOWELL, F J LOVAS, AND K STREET, JR.	254
STRUCTURE	SHELL STRUCTURE AND NUCLEAR LEVEL DENSITIES, A GILBERT.	160
STRUCTURE	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
STRUCTURE	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
STRUCTURE	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
STRUCTURE	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
STRUCTURE	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
STRUCTURE	THE CRYSTAL STRUCTURE OF CHLOROTHIODIAZYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
STRUCTURE	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
STRUCTURE	THE X-RAY CRYSTALLOGRAPHIC STRUCTURE DETERMINATION OF VARIOUS COMPOUNDS, R C PETERSEN.	378
STRUTHERS	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
SUBJECT	KEYWORD-PLUS-TITLE SUBJECT AND AUTHOR INDEX.	406
SULFATE	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
SULFATE	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON.	374
SUP-1-S-SUBZERO	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
SUP-1-S-SUBZERO	THE SUP-1-S-SUBZERO P-P SCATTERING PARAMETERS OBTAINED FROM A REANALYSIS OF EXPERIMENTAL DATA, R J SLOBODRIAN.	135
SUPER	PREDICTIONS OF NEW MAGIC REGIONS AND MASSES FOR SUPER HEAVY NUCLEI FROM CALCULATIONS WITH REALISTIC SHELL-MODEL SINGLE-PARTICLE HAMILTONIANS, H MELDNER.	157
SUPERHETERODYNE	A 35-GHZ SUPERHETERODYNE ELECTRON-SPIN-RESONANCE SPECTROMETER SYSTEM, W EASLEY AND R LAPIERRE.	359
SUPPLIES	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
SURFACE-INDUCED	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
S3N2CL2	THE CRYSTAL STRUCTURE OF CHLOROTHIODIAZYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
T(D,HELIUM-3)2N	DETERMINATION OF THE NEUTRON-NEUTRON SCATTERING LENGTH FROM THE REACTION T(D,HELIUM-3)2N, E BAUMGARTNER, H E CONZETT, E SHIELD, AND R J SLOBODRIAN.	91
TABLE	TABLE OF ISOTOPES, C M LEDERER, J M HOLLANDER, AND I PERLMAN.	1
TABLES	TABLES OF COEFFICIENTS FOR ANGULAR DISTRIBUTION OF GAMMA RAYS FROM ALIGNED NUCLEI, T YAMAZAKI.	69
TAKEKOSHI	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194

TELEMETRY	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
TEMPERATURE	TEMPERATURE DEPENDENCE OF HYPERFINE FIELDS OF CADMIUM-111 AND RUTHENIUM-99 IN NICKEL, S S ROSENBLUM, E MATTHIAS, AND D A SHIRLEY.	201
TEMPLETON	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
TEMPLETON	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
TEMPLETON	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
TEMPLETON	THE CRYSTAL STRUCTURE OF CHLOROTHIOGDIACYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
TEMPLETON	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
TERBIUM-158	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
TETRAFLUORIDE	SOME OF THE PHYSICAL PROPERTIES OF CURIUM AND PROTACTINIUM METALS AND PROTACTINIUM TETRAFLUORIDE, B M BANSAL.	372
TETRAPHENYLARSONIUM	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
THERMODYNAMIC	A NEW MICROCALORIMETER FOR THERMODYNAMIC MEASUREMENTS ON ACTINIDE ELEMENTS, L R MORSS AND D K FUJITA.	342
THERMODYNAMICS	STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	285
THOMPSON	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMI, R L WATSON, R C JARED, AND S G THOMPSON.	46
THOMPSON	EXPERIMENTAL DETERMINATION OF FIRST-CHANGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MORETTO, R C GATTI AND S G THOMPSON.	173
THOMPSON	POSSIBLE EVIDENCE OF LARGE PAIRING EFFECTS AT THE SADDLE POINT OF SOME POLONIUM AND ASTATINE ISOTOPES, L G MORETTO, R C GATTI, J R HUIZENGA, J O RASMUSSEN, AND S G THOMPSON.	175
THOMPSON	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
THOMPSON	KINETIC ENERGY-MASS DISTRIBUTIONS FROM THE FISSION OF NUCLEI LIGHTER THAN RADIUM, F PLASIL, D S BURNETT, H C BRITT, AND S G THOMPSON.	181
THOMPSON	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMI, S G THOMPSON, AND J O RASMUSSEN.	189
THOMPSON	AN EMPIRICAL FORMULA FOR THE NUMBER OF CALIFORNIUM-252 SPONTANEOUS-FISSION NEUTRONS AS A FUNCTION OF THE FISSION MASS PAIR AND THE TOTAL KINETIC ENERGY, E TAKEKOSHI AND S G THOMPSON.	194
THOMPSON	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
TIN	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
TIVOL	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
TIVOL	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
TIVOL	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3, ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86
TIVOL	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
TIVOL	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
TOMBRELLO	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3, ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86

TRANSFER	MASS OF HELIUM-8 FROM THE FOUR-NEUTRON TRANSFER REACTION MAGNESIUM-26(ALPHA,HELIUM-8) MAGNESIUM-22, J CERNY, S W COSPER, G W BUTLER, R H PEHL, F S GOULDING, D A LANDIS, AND C DETRAZ.	114
TRANSFER	HEAT AND MASS TRANSFER BETWEEN FLUID PHASES, C H BYERS, M W CLARK, AND C J KING.	287
TRANSFER	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
TRANSFER	CONVECTIVE TRANSFER PROCESSES IN LAMINAR GAS-LIQUID CHANNEL FLOW, C H BYERS.	373
TRANSFER	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN.	377
TRANSISTORS	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
TRANSITIONS	NEW TRANSITIONS AND PRECISE ENERGY AND INTENSITY DETERMINATIONS IN THE DECAY OF LUTETIUM-177M, A J HAVERFIELD, F M BERNTHAL, AND J M HOLLANDER.	9
TRANSITIONS	SURFACE-INDUCED TRANSITIONS IN HIGHLY EXCITED NOBLE GAS IONS AND QUASI-METASTABLE PEAKS IN THE MASS SPECTRA OF THE NOBLE GASES, A S NEWTON, A F SCIAMANNA, AND R CLAMPITT.	224
TREYTL	G FACTOR OF THE 243-KEV LEVEL IN YTTRIUM-86, W J TREYTL AND E MATTHIAS.	17
TREYTL	DECAY OF NEODYMIUM-139, J GILAT AND W J TREYTL.	20
TREYTL	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, -E K. HYDE, AND K VALLI.	29
TREYTL	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
TREYTL	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
TREYTL	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
TRIADS	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
TRICHLORIDE	OPTICAL SPECTRA OF TRIPOSITIVE CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T. NICOL.	247
TRICHLORIDE	THE ABSORPTION SPECTRUM OF CALIFORNIUM-PLUS-3-VALENCE AND CRYSTALLOGRAPHY OF CALIFORNIUM SESQUIOXIDE AND CALIFORNIUM TRICHLORIDE, J L GREEN.	375
TRIFLUORIDE	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
TRIM-COIL	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
TRIPROPOSITIVE	OPTICAL SPECTRA OF TRIPROPOSITIVE CURIUM-244 IN LANTHANUM TRICHLORIDE, J B GRUBER, W R COCHRAN, J G CONWAY, AND A T NICOL.	247
TRIVALENT	AN INVESTIGATION OF THE HYPERFINE STRUCTURE OF TRIVALENT TERBIUM-158 BY NUCLEAR ALIGNMENT AND PARAMAGNETIC RESONANCE -- DETERMINATION OF THE SPIN, DIPOLE MOMENT AND QUADRUPOLE MOMENT OF TERBIUM-158, J A BARCLAY, W C EASLEY, AND D A SHIRLEY.	215
TUNGSTEN	EXPERIMENTAL DETERMINATION OF FIRST-CHARGE-FISSION PROBABILITY IN HELIUM-4-INDUCED FISSION OF SOME TUNGSTEN ISOTOPES, L G MCRETTO, R C GATTI AND S G THOMPSON.	173
TWO-PARTICLE	PROTON-NEUTRON TWO-PARTICLE EXCITED STATES OF (G-SUB5/2)-SUP2-SUB5+ CONFIGURATIONS IN LIGHT NUCLIDES, C C LU AND B G HARVEY.	95
UCRL	PAPERS PUBLISHED AND UCRL REPORTS ISSUED, 1966.	381
ULTRAFINE	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A BHAGAT AND C R WILKE.	295
ULTRAFINE	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A K BHAGAT.	372
UNIFORMLY	THE NORMAL MODES OF OSCILLATION OF A UNIFORMLY CHARGED DROP ABOUT ITS SADDLE-POINT SHAPE, J R NIX.	167
UNNATURAL	PRODUCTION OF THE 3+ UNNATURAL PARITY STATE IN MAGNESIUM-24 BY INELASTIC ALPHA SCATTERING, M F REED, B G HARVEY, AND D L HENDRIE.	127
URACIL	RADIATION-INDUCED OXIDATION OF CYTOSINE AND URACIL IN AQUEOUS SOLUTIONS OF COPPER-PLUS-2-VALENCE, J HOLIAN AND W M GARRISON.	279
URANIUM-238	STUDIES OF FRAGMENT ANGULAR DISTRIBUTIONS IN THE FISSION OF BISMUTH-209 AND URANIUM-238 INDUCED BY ALPHA PARTICLES OF ENERGIES UP TO 115 MEV, S S KAPOOR, H BABA, AND S G THOMPSON.	178
VACUUM	LIQUID NITROGEN COOLED CRYOSORPTION VACUUM PUMP, R HINTZ AND R PARSONS.	353

VALENTIN	EXCITATION OF ROTATIONAL LEVELS IN SAMARIUM-152 AND SAMARIUM-154, B G HARVEY, D L HENDRIE, D N JARVIS, J MAHONEY, AND J VALENTIN.	130
VALLI	NEUTRON-DEFICIENT ACTINIUM ISOTOPES, W J TREYTL, E K HYDE, AND K VALLI.	23
VALLI	ALPHA DECAY OF NEUTRON-DEFICIENT RADIUM ISOTOPES, K VALLI, W T TREYTL, AND E K HYDE.	24
VALLI	ALPHA DECAY OF NEUTRON-DEFICIENT FRANCIUM ISOTOPES, K VALLI, E K HYDE, AND W J TREYTL.	28
VALLI	ALPHA-DECAY PROPERTIES OF NEUTRON-DEFICIENT ISOTOPES OF EMANATION, K VALLI, M J NURMIA, AND E K HYDE.	30
VALLI	ALPHA DECAY OF NEUTRON-DEFICIENT ASTATINE ISOTOPES, W J TREYTL AND K VALLI.	32
VERMEULEN	STATISTICAL THERMODYNAMICS OF PARTICULATE FLUIDIZATION, J A SAXTON AND T VERMEULEN.	285
VERMEULEN	AXIAL DISPERSION IN LIQUID FLOW THROUGH PACKED BEDS, S F MILLER, C J KING, AND T VERMEULEN.	293
VOGELSBERG	A LOW-NOISE DISTRIBUTED AMPLIFIER USING FIELD-EFFECT TRANSISTORS, M NAKAMURA, F E VOGELSBERG, AND W L CROWDER.	358
WATSON	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
WATSON	ELECTRON BINDING ENERGIES FOR HIGHLY IONIZED FISSION FRAGMENT ATOMS, R L WATSON, AND J O RASMUSSEN.	184
WATSON	A MAGNETIC STEERING DEVICE FOR ELECTRON COINCIDENCE EXPERIMENTS, R L WATSON, H R BOWMAN, S G THOMPSON, AND J O RASMUSSEN.	343
WATSON	A STUDY OF THE INTERNAL CONVERSION ELECTRONS EMITTED WITHIN 3 NSEC AFTER THE SPONTANEOUS FISSION OF CALIFORNIUM-252, R L WATSON.	379
WEEKS	CHEMICAL EVIDENCE FOR MAIN-CHAIN SCISSION AS A MAJOR DECOMPOSITION MODE IN THE RADIOLYSIS OF SOLID PEPTIDES, W M GARRISON, M E JAYKO, B M WEEKS, H A SOKOL, AND W BENNETT-CORNIEA.	275
WHITE	OPTICAL SPECTRA OF PLUTONIUM IN CALCIUM FLUORIDE, R MCLAUGHLIN, R WHITE, AND N EDELSTEIN.	250
WILBER	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
WILHELMY	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
WILHELMY	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
WILKE	FLUID-PHASE MASS TRANSFER IN DIALYSIS, R D NEWMAN AND C R WILKE.	289
WILKE	FILTRATION STUDIES WITH ULTRAFINE PARTICLES, A BHAGAT AND C R WILKE.	295
WILKE	THE DISPERSION OF BACTERIA, F G RUST AND C R WILKE.	297
WILKE	AN ECONOMIC STUDY OF SULFATE REMOVAL FROM BRINES WITH BACTERIA BASED ON A HYPOTHETICAL DESIGN, R H CHARRON AND C R WILKE.	302
WILKE	THE ELECTRONIC SIZING AND COUNTING OF BACTERIA, V H EDWARDS AND C R WILKE.	367
WINDOW	DETECTION OF HIGH-ENERGY PROTONS BY THIN WINDOW LITHIUM-DRIFTED GERMANIUM COUNTERS, R H PEHL, D A LANDIS, AND F S GOULDING.	347
WONG	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
WORDEN	THE NUCLEAR SPIN OF BERKELIUM-249 FROM THE HYPERFINE STRUCTURE IN ITS EMISSION SPECTRUM, E F WORDEN, E K HULET, R LOUGHEED, AND J G CONWAY.	218
X-RAY	THE APPLICATION OF SEMICONDUCTOR X-RAY DETECTORS TO THE STUDY OF HEAVY-ION REACTIONS, H R BOWMAN, J B WILHELMY, R L WATSON, R C JARED, AND S G THOMPSON.	46
X-RAY	X-RAY, GAMMA-RAY COINCIDENCE MEASUREMENTS ON FISSION PRODUCTS, J B WILHELMY, S G THOMPSON, AND J O RASMUSSEN.	189
X-RAY	THE X-RAY CRYSTALLOGRAPHIC STRUCTURE DETERMINATION OF VARIOUS COMPOUNDS, R C PETTERSEN.	378
XENON	COLLECTIVE EXCITATIONS IN NEUTRON-DEFICIENT BARIUM, XENON, AND CERIUM ISOTOPES, J E CLARKSON, R M DIAMOND, F S STEPHENS, AND I PERLMAN.	53
YAMAZAKI	ANGULAR DISTRIBUTIONS OF GAMMA RAYS EMITTED IN GOLD-197(P,2N) MERCURY-196 AND GOLD-197(P,4N) MERCURY-194 REACTIONS, T YAMAZAKI AND D L HENDRIE.	67

YAMAZAKI	TABLES OF COEFFICIENTS FOR ANGULAR DISTRIBUTION OF GAMMA RAYS FROM ALIGNED NUCLEI, T YAMAZAKI.	69
YAMAZAKI	GAMMA-VIBRATIONAL BANDS IN OSMIUM-182 AND OSMIUM-184, T YAMAZAKI AND D L HENDRIE.	71
YAMAZAKI	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
YAMAZAKI	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
YAMAZAKI	ISOMERIC STATES IN POLONIUM AND TIN ISOTOPES, T YAMAZAKI, G T EWAN, AND S G PRUSSIN.	78
YELLIN	ATOMIC BEAM STUDY OF THE STARK EFFECT IN THE CESIUM AND RUBIDIUM D LINES, D MCCOLM, R MARRUS, AND J YELLIN.	253
YOKOYAMA	LEVELS OF OSMIUM-188 POPULATED BY RHENIUM-188 AND IRIDIUM-188, T YAMAZAKI, J SATO, Y YOKOYAMA, S BABA, H IKEGAMI, AND M SAKAI.	74
YTTRIUM-86	G FACTOR OF THE 243-KEV LEVEL IN YTTRIUM-86, W J TREYTL AND E MATTHIAS.	17
Z=1	LONG-RANGE PARTICLES OF Z=1 TO 4 EMITTED DURING THE SPONTANEOUS FISSION OF CALIFORNIUM-252, S W COSPER, J CERNY, AND R C GATTI.	170
ZALKIN	THE CRYSTAL AND MOLECULAR STRUCTURE OF TETRAPHENYLARSONIUM CIS-DIAQUOTETRACHLORORUTHENATE MONOHYDRATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	258
ZALKIN	THE CRYSTAL STRUCTURE OF CESIUM AQUOPENTACHLORORUTHENATE, T E HOPKINS, A ZALKIN, D H TEMPLETON, AND M G ADAMSON.	261
ZALKIN	THE CRYSTAL STRUCTURE OF (B9C2H11)RE(CO)3CS, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	263
ZALKIN	THE CRYSTAL STRUCTURE OF CHLOROTHIODIAZYL CHLORIDE, S3N2CL2, A ZALKIN, T E HOPKINS, AND D H TEMPLETON.	267
ZALKIN	THE ATOMIC PARAMETERS IN THE LANTHANUM TRIFLUORIDE STRUCTURE, A ZALKIN, D H TEMPLETON, AND T E HOPKINS.	270
ZANE	AN INVESTIGATION INTO THE CHARACTERISTICS OF A HELIUM-NEON CW LASER FOR TELEMETRY APPLICATIONS, R LAPIERRE AND R ZANE.	360
ZANE	PUZZLE -- A PROGRAM FOR COMPUTER-AIDED DESIGN OF PRINTED-CIRCUIT LAYOUT, D A WILBER AND R ZANE.	362
ZANE	FOUR GENERAL-PURPOSE MODULAR INSTRUMENTS, R ZANE.	364
ZANE	MOSSBAUER-EFFECT INSTRUMENTATION, R ZANE.	366
ZEEMAN	DEPENDENCE OF LASER AXIAL BEAT-NOTE AMPLITUDE ON ZEEMAN SEPARATION, L ARMSTRONG, JR., D ALI, AND T HADEISHI.	256

10 MEV	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
10 MEV	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
10 MEV	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
14	THE NITROGEN-14(HELIUM-3,T) OXYGEN-14 REACTION AND EXCITED ISOSPIN TRIADS IN MASS 14, G C BALL AND J CERNY.	121
2P	THE 2P FINAL-STATE INTERACTION IN THE HELIUM-3(HELIUM-3,ALPHA)2P REACTION, R J SLOBODRIAN, D J CLARK, J S C MCKEE, W F TIVOL, AND T A TOMBRELLO.	86
20 MEV	POLARIZATION IN PROTON HELIUM-3 SCATTERING BETWEEN 10 AND 20 MEV, W F TIVOL, D J CLARK, H E CONZETT, J S C MCKEE, E SHIELD, AND R J SLOBODRIAN.	83
20 MEV	SCATTERING OF POLARIZED PROTONS BY DEUTERIUM IN THE ENERGY REGION 10 TO 20 MEV, J S C MCKEE, D J CLARK, R J SLOBODRIAN, AND W F TIVOL.	84
235-NSEC	DETECTION OF NUCLEAR MAGNETIC RESONANCE IN A 235-NSEC NUCLEAR STATE BY PERTURBED ANGULAR CORRELATIONS, E MATTHIAS, D A SHIRLEY, M P KLEIN, AND N EDELSTEIN.	212
251	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
257	ISOTOPES OF ELEMENT-102 WITH MASS 251 TO 257, A GHIORSO, T SIKKELAND, AND M J NURMIA.	43
35-GHZ	A 35-GHZ SUPERHETERODYNE ELECTRON-SPIN-RESONANCE SPECTROMETER SYSTEM, W EASLEY AND R LAPIERRE.	359
4.2 MEV	PROTON-PROTON SCATTERING BETWEEN 4.2 AND 10 MEV AND THE SUP-1-S-SUBZERO SHAPE-DEPENDENT SCATTERING PARAMETER, R J SLOBODRIAN, H E CONZETT, E SHIELD, AND W F TIVOL.	88
50 MEV	THE MAGNESIUM-24(ALPHA,ALPHA-PRIME) REACTION AT 50 MEV, D L HENDRIE, B G HARVEY, J MAHONEY, AND J R MERIWETHER.	124
500 NSEC	THE PULSED BEAM METHOD FOR THE SYSTEMATIC OBSERVATION OF ISOMERIC STATES IN THE 3 TO ABOUT 500 NSEC RANGE POPULATED BY (PARTICLE,XN) REACTIONS, T YAMAZAKI AND G T EWAN.	76
55-MEV	ELASTIC SCATTERING OF 55-MEV PROTONS FROM HELIUM-3, D L HENDRIE, B G HARVEY, O N JARVIS, J MAHONEY, AND W TIVOL.	133
75-KEV	NUCLEAR MAGNETIC RESONANCE IN THE 75-KEV STATE OF RHODIUM-100 DETECTED BY ANGULAR CORRELATIONS, E MATTHIAS, N EDELSTEIN, H J KORNER, AND D A SHIRLEY.	209
88-INCH	MACHINE DEVELOPMENT AT THE BERKELEY 88-INCH CYCLOTRON, R BURGER, D J CLARK, E CLOSE, AND H KIM.	309
88-INCH	REGENERATIVE BEAM EXTRACTION FOR THE BERKELEY 88-INCH CYCLOTRON, D J CLARK, E CLOSE, H A GRUNDER, H KIM, P PELLISSIER, AND B H SMITH.	317
88-INCH	MECHANICAL DESIGN OF A REGENERATIVE DEFLECTOR FOR THE BERKELEY 88-INCH CYCLOTRON, D ELO, A R CARNEIRO, F BIERLEIN, AND J L WONG.	329
88-INCH	AUTOMATIC CONTROL OF THE TRIM-COIL POWER SUPPLIES AT THE BERKELEY 88-INCH CYCLOTRON, D R STRUTHERS.	339
97	SOME CHEMICAL PROPERTIES OF ELEMENT 97, J R PETERSON AND B B CUNNINGHAM.	231

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