

VOLUMEN I

DEPARTAMENTO INVESTIGACION BASICA

Trabajos efectuados en el Centro Atómico Bariloche y publicados con referato

-1957-

Fisicoquímica

✓ -WIDE-RANGE THERMAL CONVECTION MANOMETER
J.A. McMillan & T. Buch
The Review of Scientific Instruments, 28, N° 11, 881 (1957)

-1959-

Colisiones Atómicas

✓ -DESIGN AND PERFORMANCE OF A HOT CATHODE MAGNETICALLY COLLIMATED ARC DISCHARGE ION SURFACE
M. Abele & W. Meckbach
The Review of Scientific Instruments, 30, N° 5, 335 (1959) ✓

-1960-

Teoría

✓ -THE THEORY OF PHOTON PACKETS AND THE LENNUIER EFFECT
L.M. Falicov
Nuovo Cimento, 16, N° 2, 247 (1960)

-1961-

Metales

✓ -ON THE YIELD STRESS IN b.c.c. METALS
G. Schoeck
Acta Metallurgica, 9 N° 4, 382 (1961)

✓ -STEADY STATE CREEP IN A CuAu₃ ALLOY
R.G. Davies
Transactions of the Metallurgical Society of AIME, 221, 1280 (1961)

-1962-

Metales

✓ -CORRELATION BETWEEN DISLOCATION LENGTH AND DENSITY
G. Schoeck
Journal of Applied Physics, 33, N° 5, 1745 (1962)

Teoría

✓ -DEFINITION OF NUCLEAR POTENTIALS FROM DOUBLE DISPERSION RELATIONS IN FIELD THEORY AND POTENTIAL SCATTERING
F. Morey
Nuovo Cimento, Serie X, 24, 585 (1962)

-1964-

Metales

- ✓ -THE ACTIVATION ENERGY OF HIGH TEMPERATURE INTERNAL FRICTION
G. Schoeck, E. Bisogni & J. Shyne
Acta Metallurgica, 12, N° 12, 1466 (1964)
- ✓ -REMARKS ON A "NEW THEORY OF WORK-HARDENING"
G. Schoeck
Philosophical Magazine, 9, N° 98, 335 (1964)

-1965-

Metales

- ✓ -THE ACTIVATION ENERGY OF DISLOCATION MOVEMENT
G. Schoeck
Physica Status Solidi, 8, 499 (1965)

Teoría

- ✓ -A RENORMALIZED GHOST-FREE LEE MODEL
A. García & F. Morey
Nuovo Cimento, Serie X, 37, 9 (1965)
- ✓ -ABSORCION DE HIPERSONIDO EN DIELECTRICOS A TEMPERATURAS BAJAS
B.R. Alascio & R.M. Carrillo
Acta Científica Venezolana 16, N° 3, 95 (1965)

-1966-

Metales

- ✓ -ON THE RECOVERY AND ORDERING PROCESSES OF COLD WORKED Ni-Fe ALLOYS
C. Varotto & A.E. Vidoz
Physica Status Solidi, 18, 49 (1966)
- ✓ -REMARKS ON A THEORY OF LINEAR STRAIN HARDENING
G. Schoeck
Philosophical Magazine, 13, N° 123, 635 (1966)
- ✓ -NUCLEATION OF DEFORMATION TWINS IN F.C.C. METALS
G. Schoeck
Physica Status Solidi, 13, 127 (1966)
- ✓ -CREEP AT HIGH TEMPERATURES IN Ni-Fe ALLOYS
C.A. Pampillo & A.E. Vidoz
Acta Metallurgica, 14, 313 (1966)

Resonancias Magnéticas

- ✓ -EPR OF PENTAVALENT MOLYBDENUM IN LIQUID SOLUTIONS
M.M. Abraham, J.P. Abriata, M.E. Foglio & E. Pasquini
Journal of Chemical Physics, 45, N° 6, 2069 (1966)

Teoría

- ✓ -DO THE COMMUTATION RULES FOR COUPLED FIELDS DEPEND ON THEIR INTERACTION?
L. Masperi
Supplemento al Nuovo Cimento, Serie I, 4, 1 (1966)
- ✓ -COHERENCE PROPERTIES OF TWO-PHOTON SYSTEMS
L. Menegozzi
Supplemento al Nuovo Cimento, Serie I, 4, 15 (1966)
- ✓ -SERIES DEVELOPMENT OF THE SOLUTION OF AN EIGENVALUE PROBLEM
A. López
Acta Physica Austriaca, 21, N° 3, 237 (1966)

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Bajas Temperaturas

- ✓ -LONGITUDINAL MAGNETOMORPHIC EFFECT IN INDIUM FILMS
F. de la Cruz, M.E. de la Cruz & J.M. Cotignola
Physical Review, 163, N° 3, 575 (1967)
- ✓ -THERMAL CONDUCTIVITY OF POLYCRYSTALLINE ZINC BELOW 1°K
J.M. Cotignola, F. de la Cruz, M.E. de la Cruz & R.P. Platzek
Review of Scientific Instruments, 38, N° 1, 87 (1967)

Colisiones Atómicas

- ✓ -CHARGE EQUILIBRIUM OF HELIUM IONS IN HELIUM GAS FROM 60 TO 840 keV
W. Meckbach & I.B. Nemirovsky
The Physical Review, 153, N° 1, 113 (1967)

Metales

- ✓ -TENSILE RESULTS IN ORDERED AND DISORDERED Ni₃Fe SINGLE CRYSTALS
M. Victoria & A.E. Vidoz
Acta Metallurgica, 15, 676 (1967)

Teoría

-TWO-PARTICLE GREEN FUNCTIONS AND NUCLEAR STRUCTURE

W.J. Mulhall, R.J. Liotta, J.A. Evans & R.P.J. Perazzo
Nuclear Physics A, 93, 261 (1967)

-APPLICATION OF THE GREEN FUNCTION METHOD TO THE NUCLEI ^{90}Zr AND ^{86}Kr

W.J. Mulhall & R.J. Liotta
Nuclear Physics A, 95, 161 (1967)

✓ -THE USE OF COHERENT STATES IN THE THEORY OF SUPERFLUIDITY

A. López
Physics Letters A, 25, N° 2, 83 (1967)

✓ -THE DETERMINATION OF THE SIGN OF THE SPIN-HAMILTONIAN PARAMETERS

M.E. Foglio
Nuovo Cimento, 50B, N° 1, 158 (1967)

✓ -THE ELECTROMAGNETIC ENERGY-MOMENTUM TENSOR IN A MATERIAL MEDIUM:
A CRUCIAL THOUGHT EXPERIMENT

J. Agudín
Physics Letters A, 24, N° 13, 761 (1967)

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Bajas Temperaturas

✓ -THERMAL AND ELECTRICAL CONDUCTIVITIES OF VERY-HIGH-PURITY INDIUM

M.E. de la Cruz, F. de la Cruz, J.M. Cotignola, O.J. Bressan
& C.A. Luengo
Physical Review, 176, N° 3, 871 (1968)

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✓ -TENSILE BEHAVIOUR UPON ORDERING OF Ni_3Fe SINGLE CRYSTALS

M. Victoria & A.E. Vidoz
Physica Status Solidi, 28, 131 (1968)

✓ -THE STABILITY OF ANTIPHASE BOUNDARY TUBES

G. Schoeck
Scripta Metallurgica, 2, 283 (1968)

X

✓ -CRITICAL TEMPERATURE FOR ORDERING IN $\beta\text{-AgZn}$ AND $\beta\text{-AgCd}$

J.P. Abriata, A. Cabo & J. Kittl
Scripta Metallurgica, 2, 41 (1968) ✓

X

Teoria

-EFFECT OF NORMAL PROCESSES ON THE THERMAL CONDUCTIVITY OF FINITE
INSULATING SAMPLES

B. Alascio, H. Nazareno & G. Carabelli ✓

Nuovo Cimento, 55B, N° 2, 362 (1968)

-UBER DIE GRENZEN DER MECHANISCHEN UND DER ELEKTROMAGNETISCHEN
BETRACHTUNGSWEISE

G. Beck

Acta Physica Austriaca, 28, 38 (1968)

-TIME DELAY OF SCATTERING PROCESSES

J.L. Agudín

Physical Review, 171, 1385 (1968)