University of Leeds Classification of Books
Physics

[A General]

A-0.01 Periodicals
A-0.02 Series
A-0.03 Collected essays, Festschriften etc.
A-0.04 Bibliographies and guides to literature
A-0.05 Philosophy, scientific method
A-0.06 Study and teaching
A-0.09 Tables
A-0.19 Dictionaries
A-1 General textbooks
A-2 Mathematics for physics *Prefer Mathematics J-1*

[B History of Physics and Natural Philosophy]

B-1 General *No longer used : see History of Science F-4*
B-2 Biography & works of particular scientists
No longer used : see History of Science C-9

[C General Physical Properties of Matter]

C-0 General texts
C-1 Mechanics of rigid bodies, vibrations and waves in rigid bodies
C-2 Properties of fluids, viscosity, rheology
Industrial applications: see Chemical Engineering B
C-2.1 Properties of solids *See also Chemistry E-34*
C-2.2 Properties of liquids *See also Chemistry E-20*
C-2.3 Properties of gases, high pressure and vacuum physics
See also Chemistry E-10

[D Solid State Physics]

D-0 General solid state physics
D-1 Structure, group theory
D-2 Properties (elastic, thermal)
D-2.1 Lattice dynamics and phonons
D-2.2 Surface physics
D-2.3 Diffusion
D-2.4 Thin films
D-2.41 Creation of thin films (epitaxy, sputtering, etc.)
D-2.42 Magnetic and electrical properties/effects of thin films
D-3 General crystallography (and applied X-ray physics)
D-4 Structural analysis
D-4.1 X-ray diffraction *See also General Biology D-3.4*
D-4.2 Neutron diffraction
D-4.3 Electron diffraction
D-4.4 Spectroscopy and spectrometry
See also Physics H-2 (Optics), Astronomy G-7, Chemistry D
NMR spectroscopy : see E-6.1
D-5 Defects and impurities

[E Quantum Physics]

E-0 Quantum physics – general *Quantum computers: Computer Studies L-1*
E-1 Quantum mechanics
E-1.1 Group theory and quantum mechanics
E-1.2 Quantum field theory
E-1.22 Gauge theory
E-1.3 Quantum electrodynamics and radiation
E-1.4 Scattering theory
E-1.5 Quantum optics (including wave/particle duality, quantum light theory)
E-1.6 Quantum chromodynamics
E-1.7 Quark models
E-2 Nuclear physics
E-3 Particle physics
E-3.1 Elementary particles
E-3.2 High energy particles
E-3.3 Mossbauer effect
E-3.4 Particle collisions
E-4 Radioactivity and isotopes (including fission)
Fusion : see Mechanical Engineering D-5
Containment of fusion : see Physics N-0
E-4.1 Damage to solids, crystals, etc.
E-4.2 Protection, effects, dosage and other health issues
Agricultural aspects : see Applied Biology C-39
Historical aspects : see History of Science L-10
Political aspects : see History of Science Q-2
E-5 Detectors
E-6 Magnetic resonance and nuclear moments *See also Chemistry D-3*
E-6.1 NMR spectroscopy *See also Chemistry D-2*
[E-6.2 MRI - Magnetic resonance imaging] *No longer used : see Health Sciences WN 185*
E-7 Lasers and masers : theory and creation of lasers *Applications : see H-4.2*
E-8 Neutrons

[G Acoustics]

Architectural aspects: Civil Engineering R-5
Musical aspects: Music A-1.4
Acoustical engineering : Electrical Engineering P-2
G-0 General

[H Optics]

H-0 General (light and phenomena associated with its generation, transmission and detection, including nonlinear optics)
H-1 Geometrical and wave optics (includes reflection and refraction)
H-2 Spectroscopy *See also Chemistry D ; Physics D-4.4*
H-3 Raman effect, luminescence *See also Chemistry D-6*
H-4 Applied optics
[Colour] *No longer used : see Colour Chemistry*
H-4.2 Laser technology & applications *Theory : see E-7*
H-5 Electron optics (use of electron lenses in electron microscopes, cathode ray tubes, etc.)

[J Heat]

J-0 General
J-1 Temperature measurement, radiation
J-2 Heat transfer
J-3 Thermodynamics, statistical dynamics, statistical mechanics
Industrial applications : see Chemical Engineering A-4.5
Chemical thermodynamics : see Chemistry J
Statistical thermodynamics : see Chemistry C-4
J-5 Low temperature physics

[K Electricity and Magnetism]

K-0 General
K-1 Classical electricity and magnetism
K-2 General conductivity in liquids and solids and resistance – general
See also Electrical Engineering G-2
K-2.1 (Electrical) Conductivity in gases, ions, ionization, x-rays, cathode rays
K-2.2 Semiconductivity, general
K-2.21 Structure and specific kinds of semiconductors
K-2.25 Diffusion and mass transfer in semiconductors
K-2.26 Interactions in and specific properties of semiconductors (including effects of beams and electromagnetic fields, Hall effects, adsorption, instabilities, resistivity, tunneling)
K-2.3 Superconductivity
K-2.4 Dielectrics, ferroelectrics, piezoelectrics
K-3 Magnetism

[L Geophysics, Meteorology, Atmospheric Electricity]

L-0 General *See also Geography D-0*
L-0.02 series
L-1 Aurora

[N Plasma Physics]

N-0 General

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