University of Leeds Classification of Books

Electrical Engineering

[A] General
A-0.01 Periodicals
A-0.03 Collections of essays, Festschriften etc.
A-0.04 Bibliography
A-0.09 Tables
A-0.18 Handbooks; directories
A-0.19 Dictionaries
A-0.2 Biography and history No longer used: see History of Science
A-0.4 Education and training
A-0.6 Electrical engineering profession
A-1 General texts

[B] Scientific texts for electrical engineers
B-1 Mathematics
B-3 Computing
B-5 Physics

[C] Electromagnetics
C-0 General
C-2 Electromagnetism
C-3 Magnetohydrodynamics
C-5 Electromagnetic waves
C-8 Guided waves; Waveguides
C-11 Antennas
C-14 Propagation

[E] Circuit & network theory
E-2 Linear system theory
E-3 Matrix analysis and graph theory
E-5 Circuit analysis
E-8 Circuit synthesis
E-9 Linear active networks
E-11 Transients
E-14 Transmission lines and filters
E-16 Engineering analogies
E-17 Miscellaneous
Physics of electrical materials

G-2 Conductors, insulators and dielectrics  See also Physics K-2
G-5 Plasmas and electric discharges
G-8 Magnetic materials
G-11 Semiconductors  See Physics K-2.2

Fabrication of devices & components

H-0 General, VLSI  Materials for microelectronics : see Materials B-9.3

Theory of devices

J-2 Thermionic devices
J-5 Semiconductor devices, Superconductor devices, Monte Carlo devices
J-8 Quantum electronic devices  Quantum computers : see Computer Studies L-1
J-11 Ferrite devices
J-14 Noise in devices
J-17 Miscellaneous devices

Electronic circuits

L-0 Electronics
L-2 Electronic circuit analysis, transistor circuits
L-5 Special amplifier circuits
L-8 Operational amplifiers and other monolithic circuits, analog & digital circuits, linear integrated circuits
L-11 Oscillators, frequency synthesis
L-14 Wave generation and shaping
L-17 Parametric amplifiers and non-linear active circuits
L-20 Handbooks of electronic circuit design, circuit handbooks
L-23 Data manuals
L-26 Miscellaneous

Communication theory; Signal processing

See also Computer Studies A-6.2
N-0 Basic communication theory
N-2 Communication system theory
N-5 Information and coding theory, conferences on speech synthesis
N-8 Random signal theory and noise
N-11 Modulation
N-14 Data transmission
N-17 Digital signal processing, waveform quantisation, spectral analysis, Kalman filtering
N-20 Image processing

Communication technology

P-0 General, Telecommunications technology
P-2 Acoustical engineering  Musical aspects: Music A-1.4
P-5 Line communication
P-8 Radio engineering, mobile systems
P-11 Television engineering, video
P-14 Microwave engineering
P-17 Radar engineering
P-20 Satellite systems and telemetry
P-23 Miscellaneous, digital transmission, optical fibre communications
[R] Computer electronics; Logic circuits
R-2 Theory of switching circuits, digital system design
R-5 Logic circuit design, integrated circuit design
R-8 Digital, analogue and hybrid computers and their technology, microprocessor interfaces
R-11 Applications of computers (including CAD)

[T] Electromechanical energy conversion
T-2 Generalised theory
T-5 Electrical machines
T-8 Design of electrical machines
T-11 Utilisation of electrical machines

[U] Power generation & distribution
U-2 Power systems analysis
U-5 Power generation and power stations
  Alternative power generation systems, e.g. solar energy, wind power,
  tidal generation, etc.: see Fuel F-9 – F-9.9
U-8 Transmission, distribution and switchgear
U-11 High voltage engineering
U-14 Power transformation

[V] Power electronics & conversion

[W] Electrical measurements
W-1 Instruments and transducers
W-5 Electrical instrumentation
W-8 Microwave techniques

[Y] Industrial applications
Y-2 Electric traction and drives
Y-3 Magnetic applications
Y-5 Electric heating
Y-8 Illumination
Y-11 Electronic applications
Y-14 Miscellaneous

[Z] Control engineering
Z-2 Control engineering theory
  For chemical industry: see Chemical Engineering O-7
Z-5 Classical (control) theory
Z-8 Non-linear theory
Z-11 Optimal / adaptive theory, adaptive control, adaptive parameter estimation (linear
  systems)
Z-14 System identification and stochastic systems
Z-17 Discrete systems
Z-20 Modern linear theory
Z-23 Electromechanical systems and components
Z-26 Fluidic / hydraulic / pneumatic systems and components
Z-29 Computer and numerical control
Z-30 Robot technology
Z-32 Applications