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University of Leeds Classification of Books **Mechanical Engineering**

A-0.02 A-0.04 A-0.19 A-1 A-2 A-3 A-5 A-6 A-7 A-8	General] Series Bibliography Dictionaries Handbooks Collected works Engineering Science Data (ESDUE Engineering training Biography and History R & D, innovation Appropriate technology	J) See also Engineering C-9
[B B-0 B-1 B-5 B-30	Mathematics for mechanical engineers] General Statistical analysis, probability Dimensional analysis in mechanical engineering & tolerancing Computers	
[C C-0 C-1 C-2 C-3	Graphics and numerical and General Numerical analysis Graphical analysis Geometrical drawing	nalysis]
D-0 D-1 D-2 D-3 D-4 D-5 D-6 D-7 D-8	Nuclear engineering] General (including descriptive an [Nuclear physics General reactor theory Reactors (thermal) Reactors (fast) Reactors (fusion) Instrument and radiation measure Safety (of nuclear plants) Material properties, nuclear waste	No longer used : see Physics E-2] ement



E-0 E-1 E-2 E-3 E-4 E-5 E-6 E-7 E-8 E-8.5 E-9 E-10 E-11 E-12 E-13 E-14 E-15 E-16 E-17	Thermodynamic properties Thermodynamics (engineering) [Thermodynamics (physical) [Thermodynamics (chemical) [Temperature measurement Flame and combustion Internal combustion engines (recip Internal combustion engines (rotar Jet engines Compressors (rotary) Compressors (reciprocating) Steam engines (reciprocating) Steam turbines Steam raising; Boilers Condensation Refrigeration Heat pump Heat transfer (general); Mass tran Heat transfer (radiation)	
E-19 E-20	Heat transfer (conduction) Heat transfer (convection)	
F-0 F-1 F-2 F-3 F-3.1 F-4 F-5 F-6 F-7 F-8 F-9	Fluid mechanics] General For chemical industry: see Chemical Engineering B Incompressible fluid flow Compressible fluid flow (aerodynamics and gas dynamics) Viscous flow theory Boundary layer theory Turbulence, vortex, vortices, cavitation Magneto-hydrodynamics Fluid machinery (rotational); Pumps Fluid machinery (reciprocating) Flow measurement Testing techniques (wind tunnels etc)	
[G G-0 G-1 G-2 G-3 G-4	Lubrication and contact] General Friction and Wear Fluid Film Bearings Lubricants	
[H H-0 H-1 H-1.1 H-2 H-3 H-4 H-5	Theory of machines] General Dynamics Balancing Kinematics Mechanical vibrations [Control engineering] Machine elements Gears	No longer used– see Electrical Engineering Z

[J	Strength of materials]		
J-0	See also Materials General, engineering mechanics		
J-1	Elasticity		
J-1.1	Thermal stresses		
J-2	Plasticity		
J-3	Flow, fracture mechanics		
J-3.1	Fatigue: design, structures, testing, strength of materials		
J-3.2	Creep		
J-3.3	Brittle behaviour		
J-4.1	Experimental stress analysis		
J-5	Shipbuilding		
J-7	Engineering structures; Aircraft; Hovercraft; Hydrofoils		
[K	Product engineering]		
K-0	General; Prototyping; Concurrent engineering		
K-1	Metrology		
K-1.1	Inspection		
K-1.2	Quality control, including statistical quality control		
K-1.3	Limits and fits		
K-2	Workshop practice (general)		
K-3	[Foundry Processes] No longer used: see Materials D		
K-4	[Plastic formation processes] No longer used: see Materials E		
K-5	Ultrasonics and electro-erosion		
K-6	Metal cutting processes		
K-7	Metal joining processes		
K-8 K-9	Assembly processes Electro-deposition		
K-9 K-10	Machine tools		
K-10	Production management; Reliability See also Engineering C-1		
K-12	Engineering economic analysis		
K-13	Automation, CAM, CIM (Computer Aided Manufacture, Computer Integrated		
	Manufacture); Mobile robots		
	Robotics generally : see Computer Studies S-2.09		
K-14	Cybernetics and ergonomics; Bioengineering; Biomechanics		
	See also Engineering B-5		
K-15	Motion study		
[L	Design]		
<u>L</u> -0	General, CAD (Computer Aided Design)		
	See also Chemical Engineering R-2		
L-1	Mechanical drawing		
L-2	Specifications (excluding BSI specifications)		
M-0	Miscellaneous		
[N	Experimental methods, techniques & equipment]		
N-0	General; Fault diagnosis		
N-1	Electronic		
N-2	Photographic		
N-3	Optical		
N-4	Pressure measurement and recording		