BE INSPIRED The University Library

University of Leeds Classification of Books Mechanical Engineering

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



ΓE Thermodynamics] E-0 General For chemical industry: see Chemical Engineering A-4.5 E-1 Thermodynamic properties Thermodynamics (engineering) E-2 E-3 [Thermodynamics (physical) No new books - see Chemistry No new books - see Chemistry E-4 [Thermodynamics (chemical) [Temperature measurement No new books - see Physics E-5 E-6 Flame and combustion E-7 Internal combustion engines (reciprocating), Automobile engineering E-8 Internal combustion engines (rotary), Turbines, Turbomachinery E-8.5 Jet engines Compressors (rotary) E-9 Compressors (reciprocating) E-10 E-11 Steam engines (reciprocating) E-12 Steam turbines E-13 Steam raising; Boilers E-14 Condensation E-15 Refrigeration E-16 Heat pump E-17 Heat transfer (general); Mass transfer; Heat exchangers E-18 Heat transfer (radiation) E-19 Heat transfer (conduction) E-20 Heat transfer (convection) [F Fluid mechanics] F-0 General For chemical industry: see Chemical Engineering B F-1 Incompressible fluid flow F-2 Compressible fluid flow (aerodynamics and gas dynamics) F-3 Viscous flow theory F-3.1 Boundary layer theory F-4 Turbulence, vortex, vortices, cavitation F-5 Magneto-hydrodynamics F-6 Fluid machinery (rotational); Pumps Fluid machinery (reciprocating) F-7 F-8 Flow measurement F-9 Testing techniques (wind tunnels etc) [G Lubrication and contact] G-0 General G-1 Friction and Wear G-2 Fluid Film G-3 Bearings G-4 Lubricants [H] Theory of machines] H-0 General **Dynamics** H-1 Balancing H-1.1 H-2 **Kinematics** Mechanical vibrations H-3 H-4 [Control engineering] No longer used- see Electrical Engineering Z H-5 Machine elements H-5.1 Gears

[J	Strength of materials]
	See also Materials
J-0	General, engineering mechanics
J-1 J-1.1	Elasticity Thermal stresses
J-1.1 J-2	Plasticity
J-2 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	Assembly processes
K-9	Electro-deposition
K-10	Machine tools
K-11 K-12	Production management; Reliability See also Engineering C-1 Engineering economic analysis
K-12 K-13	Automation, CAM, CIM (Computer Aided Manufacture, Computer Integrated
N-13	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]
L-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