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shear stresses < 1.0 hr > Cluster H	⇒	shear stresses (measurement of) < 1.0 hr > Cluster F
shear stresses < 1.0 hr > Cluster H	⇒	shear stresses in torsion < 1.0 hr > Cluster D
sketching < 1.0 hr > Cluster B	⇒	cad/cam < 2.0 hr > Cluster J
solids & liquids: properties < 2.0 hr > Cluster A	⇒	equilibrium diagrams < 1.0 hr > Cluster C
solids & liquids: properties < 2.0 hr > Cluster A	⇒	phase changes < 1.0 hr > Cluster K
solids & liquids: properties < 2.0 hr > Cluster A	⇒	steels: microstructure, heat treating & properties < 3.0 hr > Cluster J
solutions < 1.0 hr > Cluster C	⇒	solutions in power series < 1.0 hr > Cluster L
state space representation < 2.0 hr > Cluster F	⇒	stability of state equations < 1.0 hr > Cluster A
states of matter < 0.5 hr > Cluster A	⇒	gases & vapors < 1.0 hr > Cluster H
statics: fundamental principles < 5.0 hr > Cluster E	⇒	shafts < 1.0 hr > Cluster I
statistical aspects of mechanical design < 1.0 hr > Cluster L	⇒	budget development < 1.0 hr > Cluster K
statistical aspects of mechanical design < 1.0 hr > Cluster L	⇒	business plans < 0.5 hr > Cluster K
statistical aspects of mechanical design < 1.0 hr > Cluster L	⇒	design for analysis < 1.0 hr > Cluster C
statistical aspects of mechanical design < 1.0 hr > Cluster L	⇒	metrics/methods for evaluating designs < 1.0 hr > Cluster K
statistical aspects of mechanical design < 1.0 hr > Cluster L	⇒	precision engineering < 2.0 hr > Cluster J
steady state analysis < 1.0 hr > Cluster H	⇒	transient response < 1.0 hr > Cluster A
steels: microstructure, heat treating & properties < 3.0 hr > Cluster J	⇒	welding < 0.25 hr > Cluster E
strain (measurement of) < 1.0 hr > Cluster E	⇒	flexible mechanical elements < 1.0 hr > Cluster C
strain hardening < 1.0 hr > Cluster F	⇒	strengthening mechanisms in metals & alloys < 1.0 hr > Cluster J

strength of materials < 2.0 hr > Cluster J	⇒	moment curvature relations < 1.0 hr > Cluster A
stress & equilibrium < 1.0 hr > Cluster C	⇒	stress transformation < 1.0 hr > Cluster E
stress & pressure in fluids < 1.0 hr > Cluster H	⇒	buoyancy < 0.5 hr > Cluster C
stress & pressure in fluids < 1.0 hr > Cluster H	⇒	cylinders under pressure < 1.0 hr > Cluster E
stress & strain of deformable bodies < 2.0 hr > Cluster E	⇒	linear elastic fracture mechanics < 1.0 hr > Cluster J
stress-strain relations < 2.0 hr > Cluster F	⇒	strength of materials < 2.0 hr > Cluster J
stress-strain relations < 2.0 hr > Cluster F	⇒	stress intensity < 1.0 hr > Cluster E
stress-strain relations < 2.0 hr > Cluster F	⇒	stress-strain-temperature relations < 1.0 hr > Cluster A
stress-strain-temperature relations < 1.0 hr > Cluster A	⇒	stress in solids < 2.0 hr > Cluster E
stresses, combined < 1.0 hr > Cluster F	⇒	flexible mechanical elements < 1.0 hr > Cluster C
stresses, combined < 1.0 hr > Cluster F	⇒	stress & equilibrium < 1.0 hr > Cluster C
superposition < 1.0 hr > Cluster G	⇒	solution of linear systems < 1.0 hr > Cluster C
system dynamics < 5.0 hr > Cluster L	⇒	feedback control < 2.0 hr > Cluster I
taylor series < 1.0 hr > Cluster C	⇒	approximation of functions < 1.0 hr > Cluster D
temperature < 1.0 hr > Cluster B	⇒	gases & vapors < 1.0 hr > Cluster H
temperature < 1.0 hr > Cluster B	⇒	ideal & real gases < 2.0 hr > Cluster C
temperature < 1.0 hr > Cluster B	⇒	states of matter < 0.5 hr > Cluster A
tension & compression < 1.0 hr > Cluster E	⇒	flexure < 1.0 hr > Cluster G
testing < 1.0 hr > Cluster L	⇒	time domain response by numeric simulation < 1.0 hr > Cluster G
thermal behavior of materials < 1.0 hr > Cluster B	⇒	elastic properties of metals & ceramics < 2.0 hr > Cluster J
thermal behavior of materials < 1.0 hr > Cluster B	⇒	elastic properties of metals & ceramics_2 < 2.0 hr > Cluster F
thermodynamic concepts < 1.0 hr > Cluster B	⇒	enthalpy < 0.5 hr > Cluster A
thermodynamic concepts < 1.0 hr > Cluster B	⇒	open systems < 1.0 hr > Cluster I

thermodynamic concepts	< 1.0 hr >	⇒	reversible flow in a control volume	< 1.0 hr >	Cluster H
Cluster B			a/d & d/a conversion	< 1.0 hr >	Cluster B
transducers	< 1.0 hr >	⇒	Cluster A		
transient response	< 1.0 hr >	⇒	Cluster A		
uncertainty analysis	< 1.0 hr >	⇒	Cluster L		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
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vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector analysis	< 1.0 hr >	⇒	Cluster E		
vector operations	< 1.0 hr >	⇒	Cluster E		
vector operations	< 1.0 hr >	⇒	Cluster E		
vector spaces	< 1.0 hr >	⇒	Cluster L		
velocity (measurement of)	< 1.0 hr >	⇒	Cluster D		
vibration measurements	< 1.0 hr >	⇒	Cluster I		
work & energy	< 1.0 hr >	⇒	Cluster B		
yielding criteria	< 1.0 hr >	⇒	Cluster J		
yielding criteria	< 1.0 hr >	⇒	Cluster J		
yielding criteria	< 1.0 hr >	⇒	Cluster J		