

Book Description:

In this book covers core subject which is taught to students of all disciplines of engineering in all the technical institutions affiliated to this university. The subject matter covers diverse and varied topics such as:

- Mechanics of solids: simple stresses and strains, shear force and bending moment
- Internal combustion engines, and refrigeration and air-conditioning
- Fluid mechanics, and hydraulic turbines and pumps
- Measurement and control systems
- Mechatronics, basic concepts and actuation systems (mechanical, hydraulic and pneumatic)

The author had taught these topics for several years at Punjab Engg. College, Chandigarh and this monograph is essentially based on the lectures delivered by him. From the experience gained through useful class discussions and feed back, the class notes were revised to improve their clarity and necessary explanatory notes were added during each teaching semester. The subject matter has thus been thoroughly tested in the class room and found suitable.

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