Engineering Mechanics

- Engineering Mechanics apply the physical laws that govern forces, motion, energy, and the deformation of materials under load to a wide variety of engineering problems. Engineers with expertise in mechanics are essential for the design of many projects, from nuclear reactors and energy storage systems to aircraft, automobiles and other mechanical systems. ([http://studentservices. engr. wisc. edu/advising/degrees/ema. html](http://studentservices. engr. wisc. edu/advising/degrees/ema. html))

**BOOKS**

*Circulation Section*

*3rd Floor*


International Conference on Structural Engineering Mechanic (2010) *Advances and trends in structural engineering, mechanics and computation*. Eng’g 624.10285 In61

Loney, S L. (2004). *An Elementary treatise on statics*. Eng’g 531.12 L847

Loney, S L. (2005). *The elements of statics and dynamics*. Eng’g 531.12 L847


Pytel, Andrew (2010) *Understanding engineering mechanics: dynamics*. Eng’g 620.104 P999


Sanford, R J. (2003). *Principles of fracture mechanics*. Eng’g 620.1126 Sa224
Schiavone, Peter. (2005). Dynamics study pack: free-body diagram workbook & chapter reviews. Eng’g 620.104 Sch329

Schiavone, Peter. (2005). Statics study pack-free body diagram workbook & chapter reviews [to accompany] engineering mechanics: statics by Bedford & Fowler. Eng’g 620.103 Sch329


Audio-Visual Materials

Audio-Visual Center (AVC)
2nd Floor

New media version to accompany vector mechanics for engineers: statics and dynamics [Electronic Resources]
by Beer, Ferdinand & E. Russell Johnston, Jr.
CDR 620.105 B415 2000

Electronic Journals

Accessible thru HAU Library Webpage
Proquest 5000

- Acta Mechanica
- Adhesives & Sealants Industry
- Advances in Materials Science and Engineering
- Annual Review of Fluid Mechanics
- Composites in Manufacturing
- Experimental Techniques
- Flexible Services and Manufacturing Journal
- International Journal of Modelling & Simulation
- ISRN Nanotechnology
- Journal of Electronic Materials
- Journal of Materials Science: Materials in Medicine
- Journal of Mechanics
- Journal of Quality Technology
- The Journal of Strain Analysis for Engineering Design
- Materials Performance
- Nature Materials
- Popular Mechanics
- Sensors & Transducers
INTERNET RESOURCES

Multimedia and Internet Workstation
2nd and 3rd Follor, University Library


It contains related materials pertaining to mathematics needed to mechanics, engineering statics, mechanics of elastic bodies, and engineering dynamics.


This site covers activity and development in the field of applied mechanics as it relates to civil engineering. Research on bioengineering, computational mechanics, computer-aided engineering, dynamics of structures, elasticity, experimental analysis and instrumentation, fluid mechanics, flow of granular media, inelastic behavior of solids and structures, probabilistic methods, properties of materials, fracture mechanics, stability of structural elements and systems, and turbulence is reported.

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December 10, 2013