

Engineering Mechanics: Statics and dynamics - 732 pages - 2010 - 9780138149291 - Prentice Hall, 2010 - R. C. Hibbeler

Engineering Mechanics, Statics and Dynamics was the first widely used Mechanics book based on vector principles. It ushered in the almost universal use of vector principles in teaching engineering mechanics courses today. Other textbooks written by Professor Shames include *Fundamentals of Mechanics* and *Introduction Mechanics* is the physical science concerned with the dynamical behavior (as opposed to chemical and thermal behavior) of bodies that are acted on by mechanical disturbances. Since such behavior is involved in virtually all the situations that confront an engineer, mechanics lies at the core of much engineering analysis. In fact, no physical science plays a greater role in engineering than does mechanics, and it is the oldest of all the physical sciences. This book is designed as per the syllabus of the Engineering Mechanics course for undergraduate students of Engineering. It follows a vector approach and covers both Statics and Dynamics, and provides the students with a clear and thorough presentation of the theory as well as the applications. The problems in the book familiarize students with actual situations encountered in engineering. Features. All the problems are accuracy checked. Well-defined marginalia and key terms at the end of the chapter. Use of free-body diagrams for Statics and effective-forces diagrams for Dynamics. End-of-chap Engineering Mechanics, Statics and Dynamics was the first widely used Mechanics book based on vector principles. It ushered in the almost universal use of vector principles in teaching engineering mechanics courses today. Other textbooks written by Professor Shames include *Fundamentals of Mechanics* and *Introduction Mechanics* is the physical science concerned with the dynamical behavior (as opposed to chemical and thermal behavior) of bodies that are acted on by mechanical disturbances. Since such behavior is involved in virtually all the situations that confront an engineer, mechanics lies at the core of much engineering analysis. In fact, no physical science plays a greater role in engineering than does mechanics, and it is the oldest of all the physical sciences.