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Nota di contenuto

Fundamentals -- Force Systems and Equilibrium -- Centre of Gravity -- Support Reactions -- Trusses -- Beams -- Work -- Friction -- Index.

Sommario/riassunto

This book follows the classical structure of Engineering Mechanics as taught at universities in Germany. It focuses on statics, i.e., the study of bodies at rest under the influence of forces. The aim of the book is to provide students with a clear and illustrative introduction to statics and to enable them to independently formulate and solve engineering problems. To this end, the book offers a variety of examples. The book is intended for students of mechanical engineering, civil engineering, mechanics, and all other disciplines in which statics plays a role.

Contents: Fundamentals - Force Systems and Equilibrium - Centre of Gravity - Support Reactions - Trusses - Beams - Work - Friction

The Author: Univ.-Prof. Dr.-Ing. habil. Christian Mittelstedt studied civil engineering at the University of Wuppertal, where he graduated in 1999 with a degree in civil engineering (Dipl.- Ing.). In 2005, he earned his doctorate (Dr.-Ing.) at the University of Siegen with a dissertation on stress concentration problems in composite laminates. Starting in 2006, he worked in the German aerospace industry as a research engineer and, from 2011, as a technical leader and expert in the field of structural analysis. He completed his habilitation in 2012 with a thesis on the stability of thin-walled fiber-reinforced lightweight structures. He is the author and co-author of more than 200 scientific publications in international journals, conference proceedings, and officially recognized engineering handbooks. He has written numerous textbooks on applied mechanics. Since August 2016, he has headed the institute of "Lightweight Engineering and Structural Mechanics" at the Faculty of Mechanical Engineering at the Technical University of Darmstadt.
