

# Statics And Mechanics Of Materials

## Hibbeler 2ed

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this book represents a combined abridged version of two of the author s books namely engineering mechanics statics twelfth edition in si units and mechanics of materials eight edition

for undergraduate courses in mechanics of materials a proven approach to conceptual understanding and problem solving skills mechanics of materials excels in providing a clear and thorough presentation of the theory and application of its principles the text empowers students to succeed by drawing upon the decades of classroom experience professor hibbeler has and his knowledge of how students learn the text is shaped by the comments and suggestions of hundreds of reviewers in the teaching profession as well as many of his students the 11th edition in si units features approximately 30 new problems which involve applications to many different fields of engineering

this book is a combined abridged version of engineering mechanics statics and mechanics of materials it provides a clear and precise presentation of the fundamental topics of both these subjects

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statics and mechanics of materials represents a combined abridged version of 2 of the author s books engineering mechanics statics 14th edition and mechanics of materials 10th edition it provides a clear and thorough presentation of both the theory and application of the important fundamental topics of these subjects that are often used in many engineering disciplines the development emphasizes the importance of satisfying equilibrium compatibility

of deformation and material behavior requirements the hallmark of the book however remains the same as the author's unabridged versions and that is strong emphasis is placed on drawing a free body diagram and the importance of selecting an appropriate coordinate system and an associated sign convention whenever the equations of mechanics are applied throughout the book many analysis and design applications are presented which involve mechanical elements and structural members often encountered in engineering practice this version of statics and mechanics of materials features the same content as the traditional bound text in a convenient three hole punched loose leaf format if you are not using mastering engineering you can purchase access to the videos that accompany this title here

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the goal of this text is to introduce a general problem solving approach for the beginning engineering student thus introduction to analysis focuses on how to solve any kind of engineering analytical problem in a logical and systematic way the book helps to prepare the students for such analytically oriented courses as statics strength of materials electrical circuits fluid mechanics thermodynamics etc

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