

## **Vector Mechanics Statics and Dynamics, 12e**

Ferdinand Beer  
E. Russell Johnston, Jr.  
David Mazurek  
Phillip Cornwell  
and Brian Self

©2019

ISBN: 125963809X

### **Detailed List of New Features**

100% of the free-body diagram problems have been added to Connect.

Stand-alone Process-Oriented Problems are now included in Connect.

Each chapter now features a case study. Connect contains videos based on each case-study to demonstrate more applications to students. Statics and Dynamics offer Case Study Videos.

Only Dynamics offers Working Model Videos.

Thoroughly Refreshed Problem Set in the Twelfth Edition.

Concept Questions are multiple choice problems that require few, if any, calculations are included. Students are encouraged to solve these problems using the principles and techniques discussed in the text and to use these principles to help develop their intuition.

### **Retained Features**

McGraw-Hill Education Connect is a digital teaching and learning environment that improves performance over a variety of critical outcomes; it is easy to use; and it is proven effective. Available within McGraw-Hill Education's Connect, SmartBook makes study time as productive and efficient as

possible. It identifies and closes knowledge gaps through a continually adapting reading experience that provides personalized learning resources at the precise moment of need. This ensures that every minute spent with SmartBook is returned to the student as the most value-added minute possible. The result? More confidence, better grades, and greater success.

Computer and Design Problems are offered at the end of each chapter. While the problems are generic they are designed to be easily solved using popular computational programs like Matlab® and Mathcad®. The computer problems focus on symbolic manipulation and plotting rather than programming.

COSMOS is available with this title (Complete Online Solutions Manual Organization System). Instructors can learn more about the system by clicking [here](#). and register for the system at the following link <http://cosmos.mhhe.com>.

A Careful, Step-By-Step Presentation is followed in each lesson of each chapter, and every chapter starts with a real-life example and an outline previewing the chapter objectives and lessons. Each lesson is accompanied by sample problems and Solving Problems On Your Own boxes that prepare students for the problem sets. Each chapter finishes with a brief Review Problem set and an assortment of computer and design problems.

Well-Respected Sample Problems are a signature Beer and Johnston text feature that allow students to see important key problem types and with the solution laid out on a single page, organized to provide a potent model for student problem solving. Sample Problems serve the dual purpose of amplifying the text and demonstrating the type of neat and orderly work that students should cultivate in their own solutions.

Find Your Rep at [mhhe.com/rep](http://mhhe.com/rep)



Because learning changes everything.™