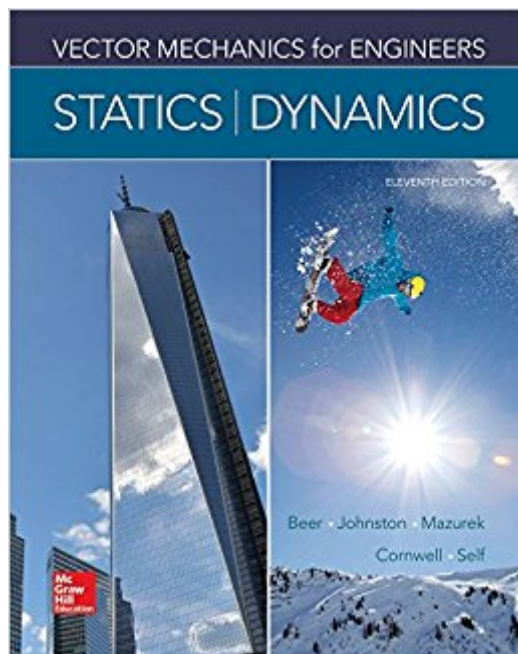


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# Vector Mechanics For Engineers: Statics And Dynamics (Mechanical Engineering)



## Synopsis

A primary objective in a first course in mechanics is to help develop a student's ability first to analyze problems in a simple and logical manner, and then to apply basic principles to their solutions. A strong conceptual understanding of these basic mechanics principles is essential for successfully solving mechanics problems. This edition of Vector Mechanics for Engineers will help instructors achieve these goals. Continuing in the spirit of its successful previous editions, this edition provides conceptually accurate and thorough coverage together with a significant refreshment of the exercise sets and online delivery of homework problems to your students. This edition has undergone a complete rewrite to modernize and streamline the language through the text. Over 650 of the homework problems in the text are new or revised. One of the characteristics of the approach used in this book is that mechanics of particles is clearly separated from the mechanics of rigid bodies. This approach makes it possible to consider simple practical applications at an early stage and to postpone the introduction of the more difficult concepts. McGraw-Hill Education's Connect, is also available as an optional, add on item. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that class time is more effective. Connect allows the professor to assign homework, quizzes, and tests easily and automatically grades and records the scores of the student's work. Problems are randomized to prevent sharing of answers and may also have a "multi-step solution" which helps move the students' learning along if they experience difficulty.

## Book Information

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## Customer Reviews

Born in Philadelphia, Russ holds a B.S. degree in civil engineering from the University of Delaware and an Sc.D. degree in the field of structural engineering from The Massachusetts Institute of Technology (MIT). He taught at Lehigh University and Worcester Polytechnic Institute (WPI) before joining the faculty of the University of Connecticut where he held the position of Chairman of the Civil Engineering Department and taught for twenty-six years. In 1991 Russ received the Outstanding Civil Engineer Award from the Connecticut Section of the American Society of Civil Engineers. Brian obtained his B.S. and M.S. degrees in Engineering Mechanics from Virginia Tech, and his Ph.D. in Bioengineering from the University of Utah. He worked in the Air Force Research Laboratories before teaching at the U.S. Air Force Academy for seven years. Brian has taught in the Mechanical Engineering Department at Cal Poly, San Luis Obispo since 2006. He has been very active in the American Society of Engineering Education, serving on its Board from 2008-2010. With a team of five, Brian developed the Dynamics Concept Inventory to help assess student conceptual understanding. His professional interests include educational research, aviation physiology, and biomechanics. David holds a B.S. degree in ocean engineering and a M.S. degree in civil engineering from the Florida Institute of Technology, and a Ph.D. degree in civil engineering from the University of Connecticut. He was employed by General Dynamics Corporation Electric Boat Division for five years, where he provided submarine construction support and conducted engineering design and analysis associated with pressure hull and other structures. In addition, he conducted research in the area of noise and vibration transmission reduction in submarines. He then taught at Lafayette College for one year prior to joining the civil engineering faculty at the U.S. Coast Guard Academy, where he has been since 1990. David is currently a member of the American Railway Engineering & Maintenance-of-way Association Committee 15 (Steel Structures), and the American Society of Civil Engineers Committee on Blast, Shock, and Vibratory Effects. He has also worked with the Federal Railroad Administration on their bridge inspection training program. Professional interests include bridge engineering, railroad engineering, tall towers, structural forensics, and blast-resistant design. He is a licensed professional engineer in Connecticut and Pennsylvania. Born in France and educated in France and Switzerland, Ferd held an M.S. degree from the Sorbonne and an Sc.D. degree in theoretical mechanics from the University of Geneva. He came to the United States after serving in the French army during the

early part of World War II and had taught for four years at Williams College in the Williams-MIT joint arts and engineering program. Following his service at Williams College, Ferd joined the faculty of Lehigh University where he taught for thirty-seven years. He held several positions, including the University Distinguished Professors Chair and Chairman of the Mechanical Engineering and Mechanics Department, and in 1995 Ferd was awarded an honorary Doctor of Engineering degree by Lehigh University.~ ~ Phillip J. Cornwell. Phil holds a B.S. degree in mechanical engineering from Texas Tech University and M.A. and Ph.D. degrees in mechanical and aerospace engineering from Princeton University. He is currently a professor of mechanical engineering at Rose-Hulman Institute of Technology where he has taught since 1989. His present interests include structural dynamics, structural health monitoring, and undergraduate engineering education. Phil spends his summers working at Los Alamos National Laboratory where he is a mentor in the Los Alamos Dynamics Summer School and he does research in the area of structural health monitoring. Phil received an SAE Ralph R. Teetor Educational Award in 1992, the Dean's Outstanding Scholar Award at Rose-Hulman in 2000, and the Board of Trustees Outstanding Scholar Award at Rose-Hulman in 2001.

Literally decades of undergrad engineers-to-be have studied vector mechanics from the various editions of this book. Why continues to baffle me. Besides being severely overpriced for a sophomore-level book, the authors seemly ignore the math notation formats taught in every modern university calculus and linear/matrix algebra class.If your class requires the textbook, you don't have much choice. Hold your nose any buy it. OTOH, if you're looking for a personal enrichment book on the subjects, continue looking unless you really dig tons of colored diagrams making it more like a high school physics textbook.All that said however, it is a good intro statics & dynamics textbook once you get past the authors' idiosyncrasies.

This is a heavy 2-1/8" thick book, but it will save you money if you have to take both statics and dynamics! Does not include access to McGraw Hill online material (activation code). I already have an account with MH Connect from other books I've owned, but it seems I can't get access to the engineering content without some kind of instructor invite first, then probably an activation code. So unless your instructor specified you will be using online content, don't sweat it, just get the book. It's pretty decent from what I've seen so far anyway.

This is one overpriced and incomplete text book in Dynamics I was FORCED to buy(rent) for a

semester . It is infested with unrigorous and mind numbingly boring pages of pure tragedy. Good luck learning dynamics via hand waving--impulse-momentum diagrams. Good luck developing tolerance for confusing oxymoron ideas--Dynamic-Equilibrium...Yep, this thing has its own "Klingon" inspired language. And, If you are hoping for a sane alternative approach(es) for solving problems forget it--Lagrange is the name of the condition you will develop from getting stressed out by what is lacking from this text book. So, I can in confidence tell you I did not acquire a single useful information from this book . Mid term I switched to Applied Mechanics Dynamics (1959) by Housner G & Hudson D and Aced the life out of the class.

Horrendous book, it is completely overpriced and lacking in terms of clarity and organization. Instead of redesigned the vague and arcane question system, the only changes made from the 10th edition to the 11th appear to be shuffling the order of the questions. I pity anyone who is required to use this book.

School book, what can I say....

The value of the book as with all textbooks is debatable but usually choice of book is not at the discretion of the purchaser but rather the professor. The main thing to be wary of is with the Kindle version: Greek symbols such as lower-case omega and alpha do not appear correctly making it hard to follow many of the equations. For this reason, I had to return it.

This book was very poorly designed in my opinion. the authors could have done a better job organizing sections so that ALL the problems from a chapter were together, and not spread 10 pages apart.

No review

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