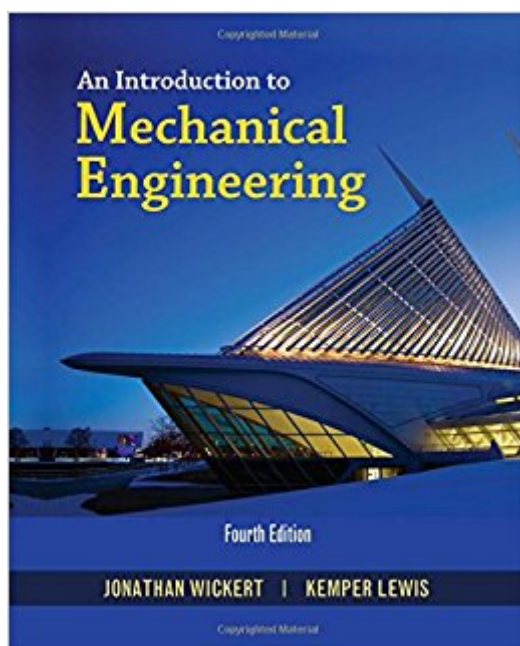


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# An Introduction To Mechanical Engineering (Activate Learning With These NEW Titles From Engineering!)



## Synopsis

Introduce your students to today's ever changing field of mechanical engineering as you instill an appreciation for how engineers design hardware that builds and improves societies around the world. AN INTRODUCTION TO MECHANICAL ENGINEERING, 4E by Wickert/Lewis is ideal for students in their first or second year of your college or university's mechanical engineering program. It is also useful for students in closely related fields. The authors effectively balance timely treatments of technical problem-solving skills, design, engineering analysis, and modern technology to provide the solid mechanical engineering foundation students need for future success.

## Book Information

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what to expect in the field. Coverage explains who mechanical engineers are and what they do, as well as what technical, social, and environmental challenges they solve with the technologies they create. Coverage of critical topics prepares you for success. Sections focus on many key engineering topics, including design patents, global design teams, and the emerging and enduring fields of mechanical engineering. Design applications highlight practicality. Design applications are developed in each chapter, through homework problems and example problems. The emphasis on applications demonstrates how your knowledge of engineering science transforms into engineered systems that use strong design principles. Visual content emphasizes real world

applications. The authors present engineering as a visual and graphical activity. Nearly 300 photographs and illustrations will motivate you with interesting examples that offer a glimpse of what you will study in later courses and practice in your career.

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A Professor of Mechanical Engineering at Iowa State University, Dr. Jonathan Wickert teaches and conducts research in the areas of applied mechanics, dynamics, and mechanical vibration. As a researcher and consultant, he has worked with companies and federal agencies on a diverse range of engineering problems including computer disk drives and tape libraries, the manufacture of sheet metal, and various consumer products. Dr. Wickert received his B.S., M.S., and Ph.D. degrees in mechanical engineering from the University of California, Berkeley. He has served as associate editor of engineering journals, as a division chair in the American Society of Mechanical Engineers, and as chair of the undergraduate mechanical engineering program at Carnegie Mellon University. Dr. Wickert has received awards in recognition of his teaching and research from the Society of Automotive Engineers, the American Society for Engineering Education, and the Information Storage Industry Consortium. He was also elected a fellow of the American Society of Mechanical Engineers. A Professor of Mechanical and Aerospace Engineering at the University at Buffalo -- SUNY, Dr. Kemper Lewis teaches and conducts research in the areas of mechanical design, system optimization, and decision modeling. As a researcher and consultant, he has worked with

companies and federal agencies on a wide range of engineering design problems. Dr. Lewis received his B.S. in mechanical engineering and B.A. in mathematics from Duke University and his M.S. and Ph.D. degrees in mechanical engineering from the Georgia Institute of Technology. He has served as associate editor of the ASME Journal of Mechanical Design. He has also served on the ASME Design Automation Executive Committee and on the National Academies Panel on Benchmarking the Research Competitiveness of the United States in Mechanical Engineering. In addition, he has worked as the Executive Director of the New York State Center for Engineering Design and Industrial Innovation. Dr. Lewis has received awards in recognition of his teaching and research from the Society of Automotive Engineers, the American Society for Engineering Education, the American Institute of Aeronautics and Astronautics, and the National Science Foundation.

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