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# An Introduction to Mechanical Engineering

*By Jonathan Wickert*



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## An Introduction to Mechanical Engineering By Jonathan Wickert

This richly illustrated text reflects the experiences and philosophy of the author as is presented in his introductory course, Fundamentals of Mechanical Engineering, currently being taught at Iowa State University. Dr. Wickert introduces students to the vocabulary, skills, applications, and excitement of the mechanical engineering profession. The text balances problem solving skills, communications skills, design engineering analysis, real world applications and practical technology.



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## **Editorial Review**

### **Review**

"The introductory chapter does a handsome job of explaining what Mechanical Engineering is and what Mechanical Engineers do...it draws the potential student a very accurate picture of the profession while also drawing the student more deeply into the excitement of Mechanical Engineering."

"I believe the author does an excellent job of taking his audience along at a comfortable and appropriate pace. Additionally, he does a good job of building his reader's knowledge base as he proceeds through the text. The author's communication skills are excellent."

### **About the Author**

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.

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