



Engineering Design: An Introduction. John Karsnitz, Stephen O'Brien, John Hutchinson

By John R. Karsnitz

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Editorial Review

Review

PART I THE ENGINEERING DESIGN PROCESS. 1. Technology: The Human-Designed World. 2. The Process of Design. 3. Development the Design Team. 4. Generating and Developing Ideas. 5. Drawing to Develop Design Ideas. 6. Reverse Engineering. 7. Investigating and Researching for Design Development. 8. Technical Drawing. 9. Testing and Evaluating. 10. Manufacturing. PART II RESOURCES FOR ENGINEERING DESIGN. 11. Designing Structural Systems. 12. Designing Mechanical Systems. 13. Designing Electrical Systems. 14. Designing Pneumatic Systems. 15. Human Factors in Design and Engineering. 16. Math and Science Applications. 17. Design Style. 18. Graphics and Presentation. Glossary. Index.

About the Author

John R. Karsnitz, Ph.D., is professor and chair of the Department of Technological Studies in the College of New Jersey's School of Engineering, where he coordinates the Professional Studies and Technological Design strand. His teaching emphasizes multimedia, architectural, and civil engineering design, as well as technology education, while his primary research interests include technological literacy in general education, pre-engineering, and STEM education. In addition to authoring several textbooks and presenting at many state and regional conferences, Dr. Karsnitz is an active member of several professional organizations. His current affiliations include the International Technology Education Association (ITEA), the Council on Technology Teacher Education (CTTE), the New Jersey Technology Education Association (NJTEA), and the New Jersey Engineering Education Council (NJEEC). Dr. Karsnitz earned B.S. and M.Ed. degrees from Millersville University and a Ph.D. from The Ohio State University. Following a successful career in electrical engineering, in 2006 Stephen O'Brien, Ph.D., joined the faculty of The College of New Jersey, where he is an associate professor of technological studies in the School of Engineering. He also coordinates the Electrical Engineering Design strand and is director of the college's Center for Excellence in STEM Education. His teaching focuses on engineering math, analog circuits, digital electronics, robotics and controls, and advanced engineering design. Dr. O'Brien's scholarly work includes over 40 publications and 13 patents, primarily in the field of optoelectronic devices, as well as frequent presentations at national professional conferences. His research interests include the efficacy of STEM training and education, as well as interdisciplinary work combining humanities, engineering, and technology. He earned a B.S. in math and physics from Western Washington University and an M.S. and Ph.D. in electrical engineering from Cornell University. John Hutchinson is an emeritus professor in the Department of Technological Studies at The College of New Jersey. He holds a Ph.D. from the Pennsylvania State University and has authored books on Design and Problem Solving in Technology and Designing with Pro/DESKTOP. Dr. Hutchinson taught at the high school, community college, and college level for more than 35 years. During his tenure, Dr. Hutchinson worked closely with colleagues from the United States, United Kingdom, Germany, and other countries in design and technology curriculum development.

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