



Engineering Fundamentals: Design, Principles, and Careers

By Ryan A. Brown, Joshua W. Brown, Michael Berkeihiser

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Engineering Fundamentals provides high school students with a complete introduction to the field of engineering. The textbook begins with an extensive, five-chapter introduction to the engineering design process. This section is followed by nine chapters focused on engineering disciplines. Each of these chapters describes the specific engineering career, its educational requirements, some of the basic math and science principles applicable to the discipline, and examples of real-world engineering projects. Engineering Fundamentals is appropriate for all levels of student. The textbook is intended to educate students about career opportunities in engineering and to provide practical applications of math and science principles. The goal of the book is to inspire students to consider engineering-related careers and to be more successful in their math and science courses. Engineering Fundamentals provides a comprehensive, traditional teaching package. Textbook content is reinforced by textbook and workbook activities. The teaching package includes ExamView test banks and PowerPoint presentations. Engineering Fundamentals provides the traditional structured learning model to support an activity-based curriculum.

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Editorial Review

About the Author

Ryan A. Brown is an assistant professor in the Department of Curriculum and Instruction and an associate director of the Center for Mathematics, Science, and Technology at Illinois State University. He currently teaches courses for preservice teachers on topics such as instructional methods and assessment. Previously, he taught a variety of courses at the secondary level, including design processes, transportation systems, and fundamentals of engineering. Dr. Brown coauthored *Exploring Design, Technology, and Engineering* with Dr. R. Thomas Wright. He has also written titles in both the *Humans Innovating Technology Series (HITS)* and the *Kids Inventing Technology Series (KITS)* for ITEEA, as well as in the *Activity!* series for the Center for Implementing Technology in Education. Dr. Brown's educational background includes a bachelor's degree and master's degree from Ball State University and a doctorate degree from Indiana University. Dr. Brown, his wife Heather, and his sons, Benjamin and Samuel, reside in Normal, Illinois. Michael Berkeihiser has written numerous journal articles for *Technology and Engineering Teacher* and the *TEEAP Journal* and has presented at many conferences. Mike teaches Engineering Design, Architectural Design, and Electronics at Unionville High School in Kennett Square, Pennsylvania. Unionville's Technology Education Department won ITEA and TEEAP Program Excellence Award in 2009. Berkeihiser's educational background includes a bachelor's degree from Millersville University and a master's degree from Ball State University.

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