



# Engineering Design Process

By Yousef Haik, Tamer M. Shahin, Sangarappillai Sivaloganathan

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**Engineering Design Process** By Yousef Haik, Tamer M. Shahin, Sangarappillai Sivaloganathan

This book is dedicated to the essential components of the design process and uses case studies, labs, and group projects to show their application. With explicit guidance, students learn that the design process is a set of procedures that will help them solve engineering problems. Yousef Haik and Tamer Shahin illustrate the critical steps of the design process, including articulating the problem, market analysis, function analysis, developing concepts, evaluating alternatives, and marketing, while facilitating hands-on learning and teamwork opportunities through labs and class-tested design problems.

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### **Review**

"The author does a good job of introducing terms in a clear manner to avoid confusion. The examples are well thought out and are also easy to follow to see the application of material presented in the chapters."

### **About the Author**

Yousef Haik is currently serving as a Professor of Sustainable Development at the College of Science and Engineering at Hamad Bin Khalifa University. His academic career has included appointments in engineering (Mechanical, Biomedical, Nanoengineering and Sustainable Development) and science (Medicinal Chemistry, Physics and Nanoscience) programs. His teaching and research interest include engineering design, nanotechnology, MEMS and fluid dynamics.

Tamer Shahin is the Chief Executive officer at the Nuvium Company. He served as an Associate Professor in Mechanical Engineering at The Petroleum Institute, United Arab Emirates University, as well as at King's College London, UK. His teaching and research interests include engineering design process, computer-aided design, product innovation and process management, engineering ethics, and design automation and optimization.

Sangarappillai Sivaloganathan is an Associate Professor in Mechanical Engineering at the United Arab Emirates University. Prior to joining UAEU, he was an Associate Professor at Brunel University, UK. His teaching and research interests include the engineering design process, computer-aided design, product innovation and process management.

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