



# Introduction to Human Factors and Ergonomics for Engineers

*By Mark R. Lehto, Steven J. Landry, Jim Buck*

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Emphasizing customer oriented design and operation, Introduction to Human Factors and Ergonomics for Engineers explores the behavioral, physical, and mathematical foundations of the discipline and how to apply them to improve the human, societal, and economic well being of systems and organizations. The book discusses product design, such as tools, machines, or systems as well as the tasks or jobs people perform, and environments in which people live. The authors explore methods of obtaining these objectives, uniquely approaching the topic from an engineering perspective as well as a psychological standpoint.

The 22 chapters of this book, coupled with the extensive appendices, provide valuable tools for students and practicing engineers in human centered design and operation of equipment, work place, and organizations in order to optimize performance, satisfaction, and effectiveness. Covering physical and cognitive ergonomics, the book is an excellent source for valuable information on safe, effective, enjoyable, and productive design of products and services that require interaction between humans and the environment.

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... a book that students should keep for later use throughout their professional careers. A key feature of this book is its thoroughness.

- Professor Tom Schnell, Department of Industrial and Mechanical Engineering, Director Operator Performance Laboratory (OPL), University of Iowa, USA

... a key text in the field for engineers and designers who should know human factors but are not human factors experts. The topics covered are comprehensive, perhaps the most complete to date. ... The authors have done an outstanding job of gauging the appropriate level of depth to coincide with their overarching goal of providing a text for those who will be involved with design.

- Professor Richard Koubek, Chair, The Harold and Inge Marcus Department of Industrial and Manufacturing Engineering

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