



The Science of Footwear (Human Factors and Ergonomics)

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The Science of Footwear (Human Factors and Ergonomics) From CRC Press

Although we now have sophisticated algorithms and techniques for determining the shapes and sizes and for matching the fit between shoes and feet, few, if any, of the books currently available cover these new technologies until now. Bringing together high-quality and state-of-the-art contributions from designers, biomechanists, ergonomists, engineers, podiatrists, and scientists from industry and academia, **The Science of Footwear** provides an in-depth understanding of the technology and techniques involved in the design and development of a popular and demanding consumer product.

This book introduces the design, development, manufacturing, and marketing of footwear. The chapters contain data from past research and the state-of-the-art methodologies. They not only cover every aspect of the product design, but also how the footwear industry caters to the wide-ranging needs of sophisticated and demanding customers.

The footwear industry has rapidly changed over the last 10 years. Mass production has changed to personalization and mass customization, areas that are not well-understood. This book explores these different concepts in a coherent way, drawing on differing views that give a holistic view of the science behind footwear. Collating information from different disciplines, the book provides the tools to develop the next generation of footwear.

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The Science of Footwear (Human Factors and Ergonomics) From CRC Press Bibliography

- Sales Rank: #226415 in eBooks
- Published on: 2012-11-06
- Released on: 2012-11-06
- Format: Kindle eBook

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Editorial Review

Review

"The integration of so many aspects of footwear design into a single volume is a challenge, but Goonetilleke has produced an extremely interesting book. ... a valuable contribution ... So, if this book were a pair of shoes would I buy them? I like their look, the material is great, and having tried them on for fit they're just about right."

?Alex W. Stedmon, Human Systems Integration Applied Research Group, Faculty of Engineering & Computing, Coventry University, Coventry, UK in *Ergonomics*, 2013, Vol. 56, No. 11 , 1789-1791

"... will fill the need of having a book to summarize what is happening in the footwear research field currently. ... the only option to read and know what is happening out there in this field.

?Channa P. Witana, PhD, Honeywell

"... a nice addition to the reference library for footwear design. ... has more breadth and is a comprehensive and multi-disciplinary overview including both historical practices and some of the latest technologies."

?Dr. Kathleen M. Robinette, Oklahoma State University

"... covers holistic information on footwear design from the scientific point of view. Topics are well organized and easy to understand for not only researchers but also designers."

?Masaaki Mochimaru, Digital Human Research Center, AIST, Japan

About the Author

Ravindra Stephen Goonetilleke is a Professor in the Department of Industrial Engineering and Logistics Management at Hong Kong University of Science and Technology, Kowloon.

Users Review

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Precisely why? Because this The Science of Footwear (Human Factors and Ergonomics) is an unordinary

book that the inside of the guide waiting for you to snap the idea but latter it will surprise you with the secret the item inside. Reading this book beside it was fantastic author who also write the book in such amazing way makes the content on the inside easier to understand, entertaining means but still convey the meaning totally. So , it is good for you because of not hesitating having this any longer or you going to regret it. This amazing book will give you a lot of benefits than the other book have got such as help improving your talent and your critical thinking approach. So , still want to hold off having that book? If I had been you I will go to the guide store hurriedly.

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