

Preface

Design is the central activity of the engineering profession. In today's context, as human-machine interface design or simply interface design has become a core issue, it is essential that design engineers and technologists need to have the knowledge of ergonomics and human factors engineering. Ergonomic design and analysis has emerged as one of the key areas of study and research over the past several decades in order to make the worksystems ergonomically designed, operationally safe, and productive. The book addresses the major issues, principles, and applications related to ergonomic design of products and worksystems.

The book is a comprehensive text on the Proceedings of the International Conference on Management of Ergonomic Design, Industrial Safety and Healthcare Systems (MESH-2016) held at Indian Institute of Technology Kharagpur, India, during December 20 to 23, 2016. It is self-contained and the subject matter is presented in an organized and systematic manner. Each chapter in this book consists of a concise but thorough fundamental statement of introduction, methodology, and findings followed by results and discussion. The concepts and case studies as presented in the book pertain specifically to the situations and conditions prevailing in Asian countries and their perspectives.

This book is quite appropriate primarily for graduate students, researchers, and industrial professionals. It can also be adapted for a short professional course on the subject matter. It is expected that design and research engineers will be able to draw upon the book in selecting and developing mathematical models for analytical and design purposes. Also, practicing engineers and managers will be highly benefited by learning the basic principles and concepts of ergonomic design as discussed and illustrated in the book.

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