

Industrial Ergonomics

M.I. Khan

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Ergonomics (or human factors) as a discipline aims to design jobs, equipment and workplace to facilitate easy-to-use human—machine interfaces. This book presents the fundamental principles and practice of ergonomics in the industrial environment. It effectively covers the concepts, basic human physiology and human capabilities, analyzing the design of the workplace with suitable examples.

The book explains muscular work and movements along with the relevant physiological principles. It describes practical guidelines for work layout and workplace design in relation to human body dimensions in order to optimize human well-being and working efficiency. Keeping in mind human capabilities and limitations to work efficiently and effectively, the book also discusses tools and techniques for skilled work, design principles of human–machine systems, and physiological and psychological effects of noise. In addition, it describes importance of indoor comfort and the various aspects of mental activity for maximum work efficiency.

This book is designed for undergraduate and postgraduate students of mechanical engineering, industrial engineering, and production and industrial engineering. It can also be useful to practising ergonomists as a ready reference.



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