
e-Books: (c2000-2013)

Advances in ergonomics in manufacturing. CRC Press, 2013. (CRCnetBASE)

Automotive ergonomics driver-vehicle interaction. CRC Press, 2013. (CRCnetBASE)

Contemporary ergonomics and human factors. CRC Press, 2012. (CRCnetBASE)

Environmental ergonomics the ergonomics of human comfort, health, and performance in the thermal environment. Elsevier, 2005. (Science Direct)

Ergonomics guidelines and problem solving. Pergamon, 2000. (Science Direct)

Occupational ergonomics theory and applications. CRC Press, 2011. (CRCnetBASE)

Unpublished Material:

Bacero, Riches S. Assessment of jeepney in terms of ergonomics, safety and environmental factors for the development of specifications and standards. 2009.

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Online Subscriptions:

Euromonitor International - A database containing global market researches, articles, written materials and data on various consumer products, services, and supplies. It also includes reports on national economic statistics and consumer lifestyles and upcoming trends.

IEEE Xplore - Provides full-text access to the world's highest-quality technical literature in electrical engineering, computer science, and electronics published by the Institute of Electrical and Electronics Engineers (IEEE).

IJPD - A refereed international journal providing an authoritative source of information on product development and innovation.

IJISE - Provides discussions on the development of industrial and systems engineering principles, tools, systems, and methods.

Disclaimer:

This pathfinder contains suggested materials on Human Factors & Ergonomics that are available at the College of Engineering Library I. However, some references were not included.

We welcome suggestions for new pathfinder topics.

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HUMAN FACTORS & ERGONOMICS

PATHFINDER



HUMAN FACTORS & ERGONOMICS

Human factors and ergonomics (HF&E) is a multidisciplinary field incorporating contributions from psychology, engineering, biomechanics, mechanobiology, industrial design, graphic design, statistics, operations research and anthropometry. In essence it is the study of designing equipment and devices that fit the human body and its cognitive abilities. The two terms "human factors" and "ergonomics" are essentially synonymous.

The International Ergonomics Association defines ergonomics or human factors as follows:

Ergonomics (or human factors) is the scientific discipline concerned with the understanding of interactions among humans and other elements of a system, and the profession that applies theory, principles, data and methods to design in order to optimize human well-being and overall system performance.

HF&E is employed to fulfill the goals of health and safety and productivity. It is relevant in the design of such things as safe furniture and easy-to-use interfaces to machines and equipment. Proper ergonomic design is necessary to prevent repetitive strain injuries and other musculoskeletal disorders, which can develop over time and can lead to long-term disability. Human factors and ergonomics is concerned with the "fit" between the user, equipment and their environments. It takes account of the user's capabilities and limitations in seeking to ensure that tasks, functions, information and the environment suit each user.

Source:

http://en.wikipedia.org/wiki/Human_factors_and_ergonomics

Books: (c2008-2012)

[Advances in human factors, ergonomics, and safety in manufacturing and service industries.](#) CRC Press, c2011. TA 166 A38 2011

[Advances in human factors and ergonomics in healthcare.](#) CRC Press, c2011. TA 166 A37 2011

[Biomechanics in ergonomics.](#) Taylor & Francis, c2008. QH 513 B56 2008

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[Contemporary ergonomics 2008 : \[proceedings of the annual conference of the Ergonomics Society, held in April 2008 at the Jubilee Campus of the University of Nottingham, U.K.\]](#). Taylor & Francis, c2008. TA 166 E76 2008

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[Ergonomics in developing regions : needs and applications.](#) CRC Press, 2009. T 59.7 E74 2009

[Gallwey, Timothy J. Ergonomics laboratory exercises.](#) CRC Press, c2009. T 59.7 G35 2009

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[Handbook of human factors and ergonomics.](#) Wiley, c2012. TA 166 H364 2012

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