Human Performance Models for Computer-Aided Engineering

Jerome I. Elkind, Stuart K. Card, Julian Hochberg, Bev Huey

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Human Performance Models for Computer-Aided Engineering is a collection of papers that deals with the relationship between scientific theories of human performance and practical engineering. This collection describes the emergence of a scientific engineering paradigm that uses computational theories in computational design aids. This book also considers computational human factors such as human performance models and their application in computer-based engineering designs. This text then presents applications of these models to some helicopter flight problems. This book also explains the four requirements in programming a computer-based model of the sensory performance of a pilot as 1) prediction capability; 2) measurement capability; 3) provision of compatible computer algorithms; and 4) image driven. This collection also describes cognitive structures-aspects of the human information processing system. This text then discusses resource management and time-sharing issues that is related to competition of scarce resources, which can be predictive of the quality of information processing. This book also describes other modeling scenarios such as those predicting human errors, decision making, and shape modeling. This text can prove valuable for computer programmers, engineers, physicists, and research scientists dealing with psychophysics.

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