Cognitive Systems Engineering
Synopsis

The first comprehensive guide to designing highly usable, fully integrated computer-based information systems. Traditional human-computer interaction (HCI) and system design models have proven too narrow to adequately assess user needs and to design usable and efficient computer-based information support systems. Taking modeling concepts from engineering, psychology, cognitive science, information science, and computer science, cognitive systems engineering (CSE) provides a much broader, more dynamic framework. This book is the first comprehensive guide to the emerging new field of cognitive systems engineering. Throughout, the emphasis is on powerful analytical techniques that enhance the systems designer's ability to see the "big picture," and to design for all crucial aspects of human-work interaction. Applicable to highly structured technical systems such as process plants, as well as less structured user-driven systems like libraries, these analytical techniques form the basis for the design and design evaluation guidelines that make up the bulk of this book. The authors also provide a chapter-length case history in which they chronicle the success of their approach when applied to a full-scale software design project.

Book Information

Hardcover: 396 pages
Publisher: Wiley-Interscience; 1 edition (August 16, 1994)
Language: English
ISBN-10: 0471011983
Product Dimensions: 6.3 x 0.9 x 9.5 inches
Shipping Weight: 1.7 pounds (View shipping rates and policies)
Average Customer Review: 3.0 out of 5 stars Â— See all reviews (2 customer reviews)
Best Sellers Rank: #1,614,901 in Books (See Top 100 in Books)  #123 in Books > Computers & Technology > Computer Science > AI & Machine Learning > Expert Systems  #165 in Books > Engineering & Transportation > Engineering > Industrial, Manufacturing & Operational Systems > Ergonomics  #2046 in Books > Business & Money > Management & Leadership > Information Management

Customer Reviews

Written by 3 leading experts from Denmark's Risø National Laboratory, this book contains a deep and wide-ranging discussion of human-computer-interaction, especially with regard to the design of
information systems. Included are chapters on work domain/task situation/ user profile
combinations, methodologies, ecological information systems, activity analysis, and field studies in
libraries

You need to read some other books first if you want to get much out of this book.

Download to continue reading...

Cognitive Systems Engineering Lean for Systems Engineering with Lean Enablers for Systems
(Mechanical and Aerospace Engineering Series) Medical Device Technologies: A Systems Based
Overview Using Engineering Standards (Academic Press Series in Biomedical Engineering)
Biomimetic Neural Learning for Intelligent Robots: Intelligent Systems, Cognitive Robotics, and
Neuroscience (Lecture Notes in Computer Science) SmartKom: Foundations of Multimodal
Dialogue Systems (Cognitive Technologies) Engineering Fundamentals: An Introduction to
Engineering Civil Engineering and the Science of Structures (Engineering in Action) Building the
Golden Gate Bridge: An Interactive Engineering Adventure (You Choose: Engineering Marvels)
Building the Empire State Building: An Interactive Engineering Adventure (You Choose: Engineering
Marvels) Engineering in Our Everyday Lives (Engineering Close-Up) Genetic Algorithms and
Engineering Design (Engineering Design and Automation) A PROLOG Database System
(Electronic & Electrical Engineering Research Studies. Computer Engineering Series ; 3)
Non-Functional Requirements in Software Engineering (International Series in Software
Engineering) Re-Engineering the Manufacturing System: Applying The Theory of Constraints
(Manufacturing Engineering and Materials Processing Series, Vol. 47) Practice Problems for the
Civil Engineering PE Exam: A Companion to the Civil Engineering Reference Manual, 15th Ed
Engineering Principles, 2nd ed (Taylor & Francis Aerospace and Aviation Engineering) Biomedical
Engineering for Global Health (Cambridge Texts in Biomedical Engineering) Introduction to
Chemical Engineering Thermodynamics (The Mcgraw-Hill Chemical Engineering Series)

Dmca