Knowledge-Based Systems In Engineering

KNOWLEDGE-BASED SYSTEMS IN ENGINEERING
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Synopsis
This book integrates the fundamentals of artificial intelligence (AI) approaches to knowledge representation with engineering examples. Its unified treatment makes it an essential tool in this emerging new field. Combining an informed approach to AI with engineering problem solving, this book is suitable for an introductory course on AI/expert systems which is specifically offered to engineers. The text provides an in-depth appreciation of the AI fundamentals underlying knowledge-based systems and covers rule-based, frame-based, and object-oriented representation with many engineering illustrations. Special Features include: discussions of emerging techniques, such as the methodology for integrating AI with CAD; implementation issues including knowledge acquisition, software and hardware issues, the system-building process, validation and testing of expert systems, and some sociological and legal aspects.

Book Information
Hardcover: 416 pages
Publisher: McGraw-Hill College (January 1, 1991)
Language: English
ISBN-10: 0070185638
Product Dimensions: 1 x 7 x 9.8 inches
Shipping Weight: 1.6 pounds
Average Customer Review: Be the first to review this item

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