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Enabling Healthcare 4.0 for Pandemics

2021-09-08 Abhinav Juneja ENABLING HEALTHCARE 4.0 for PANDEMICS The book explores the role and scope of AI, machine learning and other current technologies to handle pandemics. In this timely book, the editors explore the current state of practice in Healthcare 4.0 and provide a roadmap for harnessing artificial intelligence, machine learning, and Internet of Things, as well as other modern cognitive technologies, to aid in dealing with the various aspects of an emergency pandemic outbreak. There is a need to improvise healthcare systems with the intervention of modern computing and data management platforms to increase the reliability of human processes and life expectancy. There is an urgent need to come up with smart IoT-based systems which can aid in the detection, prevention and cure of these pandemics with more precision. There are a lot of challenges to overcome but this book proposes a new approach to organize the technological warfare for tackling future pandemics. In this book, the reader will find: State-of-the-art technological advancements in pandemic management; AI and ML-based identification and forecasting of pandemic spread; Smart IoT-based ecosystem for pandemic scenario. Audience The book will be used by researchers and practitioners in computer science, artificial intelligence, bioinformatics, data scientists, biomedical statisticians, as well as industry professionals in disaster and pandemic management.

Introduction to Embedded Systems, Second Edition

2016-12-30 Edward Ashford Lee An introduction to the engineering principles of embedded systems, with a focus on modeling, design, and analysis of cyber-physical systems. The most visible use of computers and software is processing information for human consumption. The vast majority of computers in use, however, are much less visible. They run the engine, brakes, seatbelts, airbag, and audio system in your car. They digitally encode your voice and construct a radio signal to send it from your cell phone to a base station. They command robots on a factory floor, power generation in a power plant, processes in a chemical plant, and traffic lights in a city. These less visible computers are called embedded systems, and the software they run is called embedded software. The principal challenges in designing and analyzing embedded systems stem from their interaction with physical processes. This book takes a cyber-physical approach to embedded systems, introducing the engineering concepts underlying embedded systems as a technology and as a subject of study. The focus is on modeling, design, and analysis of cyber-physical systems, which integrate computation, networking, and physical processes. The second edition offers two new chapters, several new exercises, and other improvements. The book can be used as a textbook at the advanced undergraduate or introductory graduate level and as a professional reference for practicing engineers and computer scientists. Readers should have some familiarity with machine structures, computer programming, basic discrete mathematics and algorithms, and signals and systems.

Tool Design

2012 Cyril Donaldson

Machine Tool Structures

2016-01-21 F. Koenigsberger Machine Tool Structures, Volume 1 deals with fundamental theories and calculation methods for machine tool structures. Experimental investigations into stiffness are discussed, along with the application of the results to the design of machine tool structures. Topics covered range from static and dynamic stiffness to chatter in metal cutting, stability in machine tools, and deformations of machine tool structures. This volume is divided into three sections and opens with a discussion on stiffness specifications and the effect of stiffness on the behavior of the machine under forced vibration conditions. The following chapters explore the stability of the machine structure against chatter; methods of stability analysis; tests and principles of dampers; chatter during grinding operations; and stresses and deformations of closed box structures subjected to bending and shear. Calculation methods for determining stiffness constants of a structure's individual parts, as well as methods for determining the resulting stiffnesses, modal shapes, and their parameters, are also described. The final chapter presents systematic procedures for the analysis of machine tool structures. This book is intended for university students, research workers, and designers.

Deep Work

2016-01-05 Cal Newport Master one of our economy's most rare skills and achieve groundbreaking results with this "exciting" book (Daniel H. Pink) from an "exceptional" author (New York Times Book Review). Deep work is the ability to focus without distraction on a cognitively demanding task. It's a skill that allows you to quickly master complicated information and produce better results in less time. Deep Work will make you better at what you do and provide the sense of true fulfillment that comes from craftsmanship. In short, deep work is like a super power in our increasingly competitive twenty-first century economy. And yet, most people have lost the ability to go deep—spending their days instead in a frantic blur of e-mail and social media, not even realizing there's a better way. In Deep Work, author and

professor Cal Newport flips the narrative on impact in a connected age. Instead of arguing distraction is bad, he instead celebrates the power of its opposite. Dividing this book into two parts, he first makes the case that in almost any profession, cultivating a deep work ethic will produce massive benefits. He then presents a rigorous training regimen, presented as a series of four "rules," for transforming your mind and habits to support this skill. 1. Work Deeply 2. Embrace Boredom 3. Quit Social Media 4. Drain the Shallows A mix of cultural criticism and actionable advice, Deep Work takes the reader on a journey through memorable stories—from Carl Jung building a stone tower in the woods to focus his mind, to a social media pioneer buying a round-trip business class ticket to Tokyo to write a book free from distraction in the air—and no-nonsense advice, such as the claim that most serious professionals should quit social media and that you should practice being bored. Deep Work is an indispensable guide to anyone seeking focused success in a distracted world. An Amazon Best Book of 2016 Pick in Business & Leadership Wall Street Journal Business Bestseller A Business Book of the Week at 800-CEO-READ

ALE, EDI, & Idoc Technologies for SAP

1999 Arvind Nagpal Introduces new users to the basic concepts of titular SAP interface technologies, and teaches practical skills needed to implement standard scenarios using actual business cases. Readers will learn to develop components for custom scenarios, including IDocs, programs, and configuration techniques. Testing and troubleshooting techniques are also included. Annotation copyrighted by Book News, Inc., Portland, OR

Tool Engineering

1922 Albert Atkins Dowd

Machining Technology

2008-04-23 Helmi A. Youssef Offering complete coverage of the technologies, machine tools, and operations of a wide range of machining processes, Machining Technology presents the essential principles of machining and then examines traditional and nontraditional machining methods. Available for the first time in one easy-to-use resource, the book elucidates the fundame

Fundamentals of Tool Design, Fifth Edition

2003-12-08 Society of Manufacturing Engineers The creation of a Fifth Edition is proof of the continuing vitality of the book's contents, including: tool design and materials; jigs and fixtures; workholding principles; die manipulation; inspection, gaging, and tolerances; computer hardware and software and their applications; joining processes, and pressworking tool design. To stay abreast of the newer developments in design and manufacturing, every effort has been made to include those technologies that are currently finding applications in tool engineering. For example, sections on rapid prototyping, hydroforming, and simulation have been added or enhanced. The basic principles and methods discussed in Fundamentals of Tool Design can be used by both students and professionals for designing efficient tools.

Cold and Hot Forging

2004-01-01 Taylan Altan Editors Altan (Ohio State University), Ngale (North Carolina University), and Shen (Ladish Company, Inc.) offer this extensive overview of the latest developments in the design of forging operations and dies. Basic technological principles are briefly reviewed in the first two chapters.

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