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Virendra Kumar

Digital Technology By Virendra Kumar

Chelikani Venkata Jagannath Varma,A. R. G. Rao

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Digital Technology Virendra Kumar,1995 This Book Digital Technology Principles And Practice Has Been Designed To Provide Comprehensive And In Depth Coverage Of All Important Aspects Of Digital Principles It Is Primarily Intended For Students Who Wish To Pursue A Career In Digital Technology Systems And Applications The Book Begins With A Discussion Of Various Number Systems And Their Application In Arithmetic Operations Following Logic Gates The Application Of Boolean Algebra And Karnaugh Map Techniques In Solving Digital Problems And Designing Digital Systems Is Taken Up Next As Multivibrators Form A Very Basic Device In Digital Systems Bitsables Astables And Monostables Retriggerable And Non Retriggerable Considerable Attention Has Been Paid To Their Operation Characteristics And Applications The Chapter On Arithmetic Logic Circuits Deals With All Aspects Of Arithmetic Operations Including Their Design And Operation An Arithmetic Logic Unit Has Also Been Considered As Counters Are Invariably Required In Almost All Digital Systems Considerable Attention Has Been Paid To The Design And Operation Of Several Types Of Counters Including Ring And Johnson Counters Since Registers Play An Equally Important Role They Have Also Been Discussed Semiconductor Memories Are The Cornerstone Of Logic Systems And Have Been Discussed In Depth Analog To Digital Converters And Digital To Analog Converters Being Of Equal Importance Particularly In Music Systems Are Also Discussed Among The Many Combinational Devices Too Numerous To Mention Those That Have Received Special Attention Are Multiplexers Encoders Decorders Demultiplexers And Display Devices Interfacing Problems Which Are Encountered When Logic Devices Of Different Families Are Used In The Same Logic Systems Have Been Discussed In Detail   Digital Technology Enabled Circular Economy Bikash Ranjan Moharana,Bikash Chandra Behera,Kamalakanta Muduli,2024-08-09 This book presents cutting edge findings that draw on the use of AI the Industrial Internet of Things Blockchain and Co Analytics for the development of Circular Economy CE models to make organizational activities more sustainable A further goal is the development of Digital Technology DT enabled support tools that can be used to further analyze the impact of DT and CE enabled operational practices used to achieve resource and environmental sustainability Digital Technology Enabled Circular Economy Models for Environmental and Resource Sustainability discusses the integration of digital technology enabledcircular economy models into the manufacturing industries and its advantages for sustainability It emphasizes the fundamentals and applications and their enactment as well as integration for the overall organizational development The book explains the role of digital technologies in food supply chains and multi life cycle materials for sustainable development and highlights the development of the workforce to facilitate the implementation of smart and advanced technologies This book presents the development of DT enabled support tools used to analyze the impact of DT and CE enabled operational practices on an organization and efforts to achieve resource and environmental sustainability Case studies that demonstrate how smart digital technology can help firms improve their long term performance by embracing circular operation methods

are also included Students academicians and researchers as well as managers and stakeholders who are interested in smart sustainable production and consumption together with managers and stakeholders who are interested in ways of implementing them in their organizations will find this book of interest It will demonstrate via the use of real world case studies how smart digital technology can help firms improve their long term performance by embracing circular operating methods **Digital Technology** ,2015 **Digital Twin Technology and AI Implementations in Future-Focused Businesses** Ponnusamy, Sivaram,Assaf, Mansour,Antari, Jilali,Singh, Satyanand,Kalyanaraman, Swaminathan,2024-01-04 In the modern and data driven business landscape organizations face an increasingly complex challenge how to harness the power of Artificial Intelligence AI and digital twin technology to stay competitive and relevant This challenge is exacerbated by the rapid evolution of these technologies and the urgent need for businesses to adapt AI continues to advance in areas such as language comprehension pattern recognition decision making and experiential learning while digital twins are transforming into electronic replicas of real world entities Consequently businesses grapple with the complexities of navigating this transformative convergence Digital Twin Technology and AI Implementations in Future Focused Businesses addresses the pressing issue of how AI and digital twin technology are altering the very fabric of business operations It delves into the profound implications for productivity creativity and decision making in organizations across diverse industries Staying ahead of the technical curve is crucial and this book equips readers with the knowledge and insights needed to thrive in this evolving business landscape **Digital Technologies for Climate Action, Disaster Resilience, and Environmental Sustainability** Asian Development Bank,2021-10-01 Emerging and new digital technologies have the potential to help countries tackle climate change build climate and disaster resilience and enhance environmental sustainability This publication aims to inform and influence the strategic deployment of digital technologies in developing Asia It provides an overview of the available technology types and their applications and assesses opportunities and barriers for their uptake The publication provides insights on how digital technologies can be operationalized in the Asian Development Bank s developing member countries including to support nationally determined contributions and green recovery efforts **Books in Print** ,1994 DIGITAL TECHNOLOGY: PRINCIPLES AND PRACTICE ,1998 Kurukshetra October 2023 (English) Publications Division, A monthly published in Hindi and English The journal is devoted to all aspects of rural reconstruction and village democracy The journal carries educative and informative articles on rural development and is useful for scholars academicians and students preparing for civil services and other competitive examinations Subject Guide to Books in Print ,1996 *American Book Publishing Record Cumulative 1993* R R Bowker Publishing,1994-03 Cited in BCL3 Sheehy and Walford Compiled from the 12 monthly issues of the ABPR this edition of the annual cumulation lists by Dewey sequence some 41 700 titles for books published or distributed in the US Entry information is derived from MARC II tapes and books submitted to R R Bowker an Digital Signal Processing Applications ,2000

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