



# DIGITAL TWINS AND SIMULATION TECHNOLOGY

Concepts and Applications

Edited by Lavanya Sharma and Pradeep K. Garg

A Chapman & Hall Book



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# Custompublished Digital Concepts And Applications

**Manisha Vohra**



## **Custompublished Digital Concepts And Applications:**

**Brandweek** ,2005-10      **Mediaweek** ,2003-04      The Standard Periodical Directory ,2001      **Digital Twin**

**Technology** Manisha Vohra,2023-02-01 DIGITAL TWIN TECHNOLOGY The book lucidly explains the fundamentals of digital twin technology along with its applications and various industrial real world examples Digital twin basically means a replicated model of any object or product in digital form A digital twin has many advantages as it remains connected with the original object or product it is replicating and receives real time data Therefore the obstacles and issues that could be encountered in a product or object can be known before their actual happening which helps to prevent errors and major losses which otherwise might have been incurred The various capabilities of digital twin technology make it a powerful tool that can be used to effectively boost various sectors of the healthcare automotive and construction industries among others Although this technology has been making its way into various sectors it has not yet received the kind of exposure necessary to increase awareness of its potential in these industries Therefore it is critical that a better understanding of digital twin technology is acquired to facilitate growth and to have it implemented in the various sectors so that transformation can be ushered in Therefore this book was designed to be a useful resource for those who want to become well acquainted with digital twin technology Audience Engineers researchers and advanced students in information technology computer science and electronics as well as IT specialists and professionals in various industries such as healthcare automotive and transportation

**Digital Twins and Simulation Technology** Lavanya Sharma,Pradeep Kumar Garg,2025-07-04 This book provides a comprehensive overview of the concept of digital twins emphasising its strategic importance across various commercial domains This book covers the fundamentals data requirements tools and technologies essential for understanding and implementing digital twins It discusses how digital twins are used for running simulations analysing performance issues and generating potential improvements to optimise business processes The book explores the architecture historical background and real time applications in sectors including urban planning healthcare smart cities and manufacturing Explains digital twin technology including its core principles architecture and how it replicates physical objects in virtual platforms in detail Covers the data types and tools necessary for creating and maintaining digital twins including sensors data processing systems and integration methodologies Explores technologies such as Computer Vision IoT AI ML 5G AR and VR that drive the functionality and application of digital twins Analyses practical applications in diverse sectors like urban planning smart cities healthcare manufacturing operations and power generation equipment showcasing real world use cases and benefits Examines real time challenges and limitations associated with implementing digital twin technology providing a balanced view of its capabilities and constraints It is a reference book for researchers scholars and students who are working or interested in learning about digital twin technology      Digital Twins and Simulation

Technology Lavanya Sharma,Pradeep K. Garg,2025-08      50 Digital Ideas You Really Need to Know Tom

Chatfield,2013-10-01 We are in the throes of a technological and cultural revolution yet the rapid pace of change makes it difficult to understand what's going on 50 Digital Ideas You Really Need to Know provides a clear path through the misinformation surrounding the technologies that are transforming the world Leading technology writer Tom Chatfield provides a sure footed guide to the seminal digital phenomena of our time from the basic browsers that we use to surf the web to the implications for our own privacy From plumbing the depths of the deep web that represents well over 99 percent of the internet and remains inaccessible to most search engines to digital distribution that threatens to sweep away entire industries this is an indispensable road map for our journey to a digital future P 2011 Quercus Editions Ltd     **State of the Art in Digital Media and Applications** Rae Earnshaw,2017-09-11 This book presents the user facing aspects of digital media from the web and computer games to mobile technologies and social media and demonstrates how these are continuously growing and developing The convergence of IT telecommunications and media is bringing about a revolution in the way information is collected stored accessed and distributed Rae Earnshaw's book explores the principal factors driving this and the ways in which social and cultural contexts are affected by media content This is Professor Earnshaw's fourth book in a series that focuses on digital media and creativity and through the use of Case Studies the theoretical practical and technical aspects of digital media are examined Readers are informed about how the user as content creator publisher and broadcaster is changing the traditional roles of news media publishers and entertainment corporations Topics such as the evolution of digital imaging and the phenomenon of social media are discussed in relation to this Professor Earnshaw also demonstrates how changes in technology produce shifts in the ways that consumers utilize it in an increasing variety of application domains such as e books digital cameras Facebook and Twitter State of the Art in Digital Media and Applications will be invaluable for readers that want a comprehensive look at how emerging digital media technologies are being used and how they are transforming how we create consume exchange and manipulate media content

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