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### Proceedings of the ... ASME Design Engineering Technical Conferences

### Proceedings of the ASME Design Engineering Technical Conferences and Computers and Information in Engineering Conference - 2005

Presented at 2005 ASME Design Engineering Technical Conferences and Computers and Information in Engineering Conference, September 24-28, 2005, Long Beach, California, USA.. 31st Design Automation Conference. ...

### Management Information Systems

### Managing the Digital Firm

**Pearson Educaci3n** *Management Information Systems provides comprehensive and integrative coverage of essential new technologies, information system applications, and their impact on business models and managerial decision-making in an exciting and interactive manner. The twelfth edition focuses on the major changes that have been made in information technology over the past two years, and includes new opening, closing, and Interactive Session cases.*

### Product Lifecycle Management in the Digital Twin Era

### 16th IFIP WG 5.1 International Conference, PLM 2019, Moscow, Russia, July 8–12, 2019, Revised Selected Papers

**Springer Nature** *This book constitutes the refereed post-conference proceedings of the 16th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2019, held in Moscow, Russia, in July 2019. The 38 revised full papers presented were carefully reviewed and selected from 63 submissions. The papers are organized in the following topical sections: 3D modelling and data structures; PLM maturity and industry 4.0; ontologies and semantics; PLM and conceptual design; knowledge and change management; IoT and PLM; integrating manufacturing realities; and integration of in-service and operation.*

### Product Lifecycle Management to Support Industry 4.0

### 15th IFIP WG 5.1 International Conference, PLM 2018, Turin, Italy, July 2-4, 2018, Proceedings

**Springer** *This book constitutes the refereed post-conference proceedings of the 15th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2018, held in Turin, Spain, in July 2018. The 72 revised full papers presented were carefully reviewed and selected from 82 submissions. The papers are organized in the following topical sections: building information modeling; collaborative environments and new product development; PLM for digital factories and cyber physical systems; ontologies and data models; education in the field of industry 4.0; product-service systems and smart products; lean organization for industry 4.0; knowledge management and information sharing; PLM infrastructure and implementation; PLM maturity, implementation and adoption; 3D printing and additive manufacturing; and modular design and products and configuration and change management.*

### Simulations with NX

### Kinematics, FEA, CFD, EM and Data Management. With Numerous Examples of NX 9 (Print-on-Demand)

**Hanser Publications** *This book provides the necessary basics to perform simple to complex simulations with Siemens NX software. It is aimed at designers, CAE engineers, and engineering students. Based on NX 9 the following topics are covered in the book: Motion Simulation (MBD), Design Simulation FEA (Nastran), Advanced Simulation (FEA, CFD and EM) and the management of calculation and simulation data (Teamcenter for Simulation). Starting with brief theoretical introductions, each chapter contains learning tasks of increasing difficulty. Most of them are based on the CAD model of the legendary Opel RAK2. The CAD data and calculation results of all exercises can be found online. The exercises can be done in NX versions 8, 8.5, 9, 10 and probably later versions.*

### New Trends in Medical and Service Robots

### Theory and Integrated Applications

**Springer Science & Business Media** *This book contains mainly the selected papers of the First International Workshop on Medical and Service Robots, held in Cluj-Napoca, Romania, in 2012. The high quality of the scientific contributions is the result of a rigorous selection and improvement based on the participants' exchange of opinions and extensive peer-review. This process has led to the publishing of the present collection of 16 independent valuable contributions and points of view and not as standard symposium or conference proceedings. The addressed issues are: Computational Kinematics, Mechanism Design, Linkages and Manipulators, Mechanisms for Biomechanics, Mechanics of Robots, Control Issues for Mechanical Systems, Novel Designs, Teaching Methods, all of these being concentrated around robotic systems for medical and service applications. The results are of interest to researchers and professional practitioners as well as to Ph.D. students in the field of mechanical and electrical engineering. This volume marks the start of a subseries entitled "New Trends in Medical and Service Robots" within the Machine and Mechanism Science Series, presenting recent trends, research results and new challenges in the field of medical and service robotics.*

### Project Management for Facility Constructions

## A Guide for Engineers and Architects

**Springer Science & Business Media** This book describes concepts, methods and practical techniques for managing projects to develop constructed facilities in the fields of oil & gas, power, infrastructure, architecture and the commercial building industries. It is addressed to a broad range of professionals willing to improve their management skills and designed to help newcomers to the engineering and construction industry understand how to apply project management to field practice. Also, it makes project management disciplines accessible to experts in technical areas of engineering and construction. In education, this text is suitable for undergraduate and graduate classes in architecture, engineering and construction management, as well as for specialist and professional courses in project management.

## The PDMA Handbook of New Product Development

**John Wiley & Sons** New Product Development is one of the most important challenges facing organizations today. The Product Development and Management Association (PDMA) Handbook of New Product Development 3rd Edition provides an exceptional review of cutting edge topics for both new and experienced product development leaders. It offers a comprehensive and updated guide to the practices, processes and tools critical to achieving and sustaining new product/service development success in today's world, delivering valuable information about the fundamentals as well as emerging practices such as venturing, virtual product development and the use of social media in NPD. As the premier global advocate for professionals and organizations working in the fields of new product/service development, PDMA has assembled in the Handbook unique content on the critical aspects of product development success including its 2012 Best Practices Research, Lessons Learned from its Outstanding Corporate Innovator Award Winners and keys to success from organizations with proven innovation track records. The 3rd Edition is an essential reference for anyone with responsibility for product development activities, from novices looking for fundamentals to experts seeking insights on emerging concepts, and is relevant for all functions and all product/service industries.

## Ranger Handbook (Large Format Edition)

**Allegro Editions** The history of the American Ranger is a long and colorful saga of courage, daring, and outstanding leadership. It is a story of men whose skills in the art of fighting have seldom been surpassed. The United States Army Rangers are an elite military formation that has existed, in some form or another, since the American Revolution. A group of highly-trained and well-organized soldiers, US Army Rangers must be prepared to handle any number of dangerous, life-threatening situations at a moment's notice-and they must do so calmly and decisively. This is their handbook. Packed with down-to-earth, practical information, The Ranger Handbook contains chapters on Ranger leadership, battle drills, survival, and first aid, as well as sections on military mountaineering, aviation, waterborne missions, demolition, reconnaissance and communications. If you want to be prepared for anything, this is the book for you. Readers interested in related titles from The U.S. Army will also want to see: Army Guerrilla Warfare Handbook (ISBN: 9781626542730) Army Guide to Boobytraps (ISBN: 9781626544703) Army Improvised Munitions Handbook (ISBN: 9781626542679) Army Leadership Field Manual FM 22-100 (ISBN: 9781626544291) Army M-1 Garand Technical Manual (ISBN: 9781626543300) Army Physical Readiness Training with Change FM 7-22 (ISBN: 9781626544017) Army Special Forces Guide to Unconventional Warfare (ISBN: 9781626542709) Army Survival Manual FM 21-76 (ISBN: 9781626544413) Army/Marine Corps Counterinsurgency Field Manual (ISBN: 9781626544246) Map Reading and Land Navigation FM 3-25.26 (ISBN: 9781626542983) Rigging Techniques, Procedures, and Applications FM 5-125 (ISBN: 9781626544338) Special Forces Sniper Training and Employment FM 3-05.222 (ISBN: 9781626544482) The Infantry Rifle Platoon and Squad FM 3-21.8 / 7-8 (ISBN: 9781626544277) Understanding Rigging (ISBN: 9781626544673)

## Finite Elements of Nonlinear Continua

**Courier Corporation** Geared toward undergraduate and graduate students, this text extends applications of the finite element method from linear problems in elastic structures to a broad class of practical, nonlinear problems in continuum mechanics. It treats both theory and applications from a general and unifying point of view. The text reviews the thermomechanical principles of continuous media and the properties of the finite element method, and then brings them together to produce discrete physical models of nonlinear continua. The mathematical properties of these models are analyzed, along with the numerical solution of the equations governing the discrete model. Though the theory and methods are sufficiently general to be applied to any nonlinear problem, emphasis has been placed on problems in finite elasticity, viscoelasticity, heat conduction, and thermoviscoelasticity. Problems in rarefied gas dynamics and nonlinear partial differential equations are also examined. Other topics include topological properties of finite element models, applications to linear and nonlinear boundary value problems, and discrete models of nonlinear thermomechanical behavior of dissipative media. This comprehensive text is valuable not only to students of structural analysis and continuum mechanics but also to professionals researching the numerical analysis of continua

## Managing Projects and Programs

## Defence Diplomacy

## Strategic Engagement and Interstate Conflict

**Routledge** This book analyzes examples of strategic engagement in order to identify the factors which contribute to the success or failure of defence diplomacy in preventing interstate conflict. For more than a century, nations have engaged in defence diplomacy to cultivate mutual understanding and mitigate conflict. A subset of defence diplomacy is strategic engagement, defined as peacetime defence diplomacy between nations that are actual or potential adversaries. This book analyzes three cases of strategic engagement in order to elucidate the factors which contribute to the success or failure of this diplomacy in preventing conflict. It uses an inductive framework to compare strategic engagement in the following cases: Anglo-German defence diplomacy prior to World War I; U.S.-Soviet defence diplomacy during the Cold War; and post-Cold War U.S.-China defence diplomacy. Based upon archival, literature, and personal interview research, the book argues that defence diplomacy can mitigate the risk of interstate conflict between potential adversaries. The lessons learned from this book can be employed to discern the significant elements conducive to achieving a successful outcome of strategic engagement and averting conflict or even war. This book will be of much interest to students of defence studies, diplomacy studies, foreign policy and international relations.

## Coordinating the Criminal Justice Response to Intimate Partner Violence

## The Effectiveness of Councils in Producing Systems Change

**DIANE Publishing** This is a print on demand edition of a hard to find publication. Communities across the U.S. are focused on creating coordinated responses to intimate partner violence (IPV). Illinois took an innovative approach to facilitating the development of coordinated responses statewide. Beginning in 1990, the Admin. Office of the Illinois Courts spearheaded the creation of a network of Family Violence Coordinating Councils (FVCC) across 22 Judicial Circuits. This study examined the effectiveness of this coordinating council structure by investigating the extent to which FVCC have an impact on perceived shifts in stakeholder knowledge and relationships and institutionalized change and more distal systems change outcomes in the systems response to IPV (e.g., accessibility of orders of protection). Illustrations.

## Official Playing Rules of the National Football League

**Triumph Books (IL)** Lists and explains professional football's playing rules as determined by the National Football League.

## Tcl and the Tk Toolkit

**Pearson Education** John K. Ousterhout's Definitive Introduction to Tcl/Tk-Now Fully Updated for Tcl/Tk 8.5 Tcl and the Tk Toolkit, Second Edition, is the fastest way for newcomers to master Tcl/Tk and is the most authoritative resource for experienced programmers seeking to gain from Tcl/Tk 8.5's powerful enhancements. Written by Tcl/Tk creator John K. Ousterhout and top Tcl/Tk trainer Ken Jones, this updated volume provides the same extraordinary clarity and careful organization that made the first edition the world's number one Tcl/Tk tutorial. Part I introduces Tcl/Tk through simple scripts that demonstrate its value and offer a flavor of the Tcl/Tk scripting experience. The authors then present detailed, practical guidance on every feature necessary to build effective, efficient production applications-including variables, expressions, strings, lists, dictionaries, control flow, procedures, namespaces, file and directory management, interprocess communication, error and exception handling, creating and using libraries, and more. Part II turns to the Tk extension and Tk 8.5's new themed widgets, showing how to organize sophisticated user interface elements into modern GUI applications for Tcl. Part III presents incomparable coverage of Tcl's C functions, which are used to create new commands and packages and to integrate Tcl with existing C software-thereby leveraging Tcl's simplicity while accessing C libraries or executing performance-intensive tasks. Throughout, the authors illuminate all of Tcl/Tk 8.5's newest, most powerful improvements. You'll learn how to use new Starkits and Starpacks to distribute run-time environments and applications through a single file; how to take full advantage of the new virtual file system support to treat entities such as zip archives and HTTP sites as mountable file systems; and more. From basic syntax to simple Tcl commands, user interface development to C integration, this fully updated classic covers it all. Whether you're using Tcl/Tk to automate system/network administration, streamline testing, control hardware, or even build desktop or Web applications, this is the one Tcl/Tk book you'll always turn to for answers.

## Product Realization

## A Comprehensive Approach

**Springer Science & Business Media** Product Realization: A Comprehensive Approach is based on selected papers presented at the International Conference on Comprehensive Product Realization 2007 (ICCP2007). The extended papers will provide the opportunity for scholars from all around the world to discuss their academic programs, identify research opportunities, and initiate joint research programs in the area of comprehensive product realization. Engineering design has evolved from an isolated semi-empirical activity to a highly interconnected, multidisciplinary product realization

collaborative process. The scope of the book will focus on a number of themes within the framework of the conference that are deemed essential to educating the next generation of students and practicing engineers in the area of product realization.

## Life-Cycle Management of Machines and Mechanisms

**Springer Nature** This book contains the description of machines and systems as investments goods in production. These machines have a technological and economical life cycle over the time used. By explaining the paradigms of life cycle management, the book describes how the life cycle of such investment goods can be designed, operated and optimized to deliver maximum benefit in industrial environment. Additional examples from industry including case studies and calculations demonstrate practical applications and deliver benefit not only for academic or educational purpose but also for industrial practitioners.

## Introduction to Phytoremediation

## Dying in America

## Improving Quality and Honoring Individual Preferences Near the End of Life

**National Academies Press** For patients and their loved ones, no care decisions are more profound than those made near the end of life. Unfortunately, the experience of dying in the United States is often characterized by fragmented care, inadequate treatment of distressing symptoms, frequent transitions among care settings, and enormous care responsibilities for families. According to this report, the current health care system of rendering more intensive services than are necessary and desired by patients, and the lack of coordination among programs increases risks to patients and creates avoidable burdens on them and their families. Dying in America is a study of the current state of health care for persons of all ages who are nearing the end of life. Death is not a strictly medical event. Ideally, health care for those nearing the end of life harmonizes with social, psychological, and spiritual support. All people with advanced illnesses who may be approaching the end of life are entitled to access to high-quality, compassionate, evidence-based care, consistent with their wishes. Dying in America evaluates strategies to integrate care into a person- and family-centered, team-based framework, and makes recommendations to create a system that coordinates care and supports and respects the choices of patients and their families. The findings and recommendations of this report will address the needs of patients and their families and assist policy makers, clinicians and their educational and credentialing bodies, leaders of health care delivery and financing organizations, researchers, public and private funders, religious and community leaders, advocates of better care, journalists, and the public to provide the best care possible for people nearing the end of life.

## Enhancing the Effectiveness of Team Science

**National Academies Press** The past half-century has witnessed a dramatic increase in the scale and complexity of scientific research. The growing scale of science has been accompanied by a shift toward collaborative research, referred to as "team science." Scientific research is increasingly conducted by small teams and larger groups rather than individual investigators, but the challenges of collaboration can slow these teams' progress in achieving their scientific goals. How does a team-based approach work, and how can universities and research institutions support teams? Enhancing the Effectiveness of Team Science synthesizes and integrates the available research to provide guidance on assembling the science team; leadership, education and professional development for science teams and groups. It also examines institutional and organizational structures and policies to support science teams and identifies areas where further research is needed to help science teams and groups achieve their scientific and translational goals. This report offers major public policy recommendations for science research agencies and policymakers, as well as recommendations for individual scientists, disciplinary associations, and research universities. Enhancing the Effectiveness of Team Science will be of interest to university research administrators, team science leaders, science faculty, and graduate and postdoctoral students.

## Robotics, Automation, and Control in Industrial and Service Settings

IGI Global

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## Strategies for Team Science Success

## Handbook of Evidence-Based Principles for Cross-Disciplinary Science and Practical Lessons Learned from Health Researchers

**Springer Nature** Collaborations that integrate diverse perspectives are critical to addressing many of our complex scientific and societal problems. Yet those engaged in cross-disciplinary team science often face institutional barriers and collaborative challenges. Strategies for Team Science Success offers readers a comprehensive set of actionable strategies for reducing barriers and overcoming challenges and includes practical guidance for how to implement effective team science practices. More than 100 experts--including scientists, administrators, and funders from a wide range of disciplines and professions-- explain evidence-based principles, highlight state-of-the-art strategies, tools, and resources, and share first-person accounts of how they've applied them in their own successful team science initiatives. While many examples draw from cross-disciplinary team science initiatives in the health domain, the handbook is designed to be useful across all areas of science. Strategies for Team Science Success will inspire and enable readers to embrace cross-disciplinary team science, by articulating its value for accelerating scientific progress, and by providing practical strategies for success. Scientists, administrators, funders, and others engaged in team science will also leave equipped to develop new policies and practices needed to keep pace in our rapidly changing scientific landscape. Scholars across the Science of Team Science (SciTS), management, organizational, behavioral and social sciences, public health, philosophy, and information technology, among other areas of scholarship, will find inspiration for new research directions to continue advancing cross-disciplinary team science.

## Tcl/Tk Pocket Reference

**"O'Reilly Media, Inc."** A handy reference guide includes easy-to-understand summaries of the basic Tcl language elements, to the Tcl and Tk commands, and to the Tk widgets, in a quick access format. Original. (Advanced).

## Tcl/Tk in a Nutshell

## A Desktop Quick Reference

**"O'Reilly Media, Inc."** The Tcl language and Tk graphical toolkit are simple and powerful building blocks for custom applications. The Tcl/Tk combination is increasingly popular because it lets you produce sophisticated graphical interfaces with a few easy commands, develop and change scripts quickly, and conveniently tie together existing utilities or programming libraries. One of the attractive features of Tcl/Tk is the wide variety of commands, many offering a wealth of options. Most of the things you'd like to do have been anticipated by the language's creator, John Ousterhout, or one of the developers of Tcl/Tk's many powerful extensions. Thus, you'll find that a command or option probably exists to provide just what you need. And that's why it's valuable to have a quick reference that briefly describes every command and option in the core Tcl/Tk distribution as well as the most popular extensions. Keep this book on your desk as you write scripts, and you'll be able to find almost instantly the particular option you need. Most chapters consist of alphabetical listings. Since Tk and mega-widget packages break down commands by widget, the chapters on these topics are organized by widget along with a section of core commands where appropriate. Contents include: Core Tcl and Tk commands and Tk widgets C interface (prototypes) Expect [incr Tcl] and [incr Tk] Tix TclX BLT Oratcl, SybTcl, and Tclodbc

## MITRE Systems Engineering Guide

## Predicting Semiconductor Business Trends After Moore's Law

The semiconductor industry exhibited life cycles that were longer than the disk drive industry but had the same free market characteristics. Over time this unfettered competition followed trends in a worldwide market that could be quantified and used to predict the future. Over the past forty years or more, I've collected data and made presentations showing how the actual economics and technology of the semiconductor industry can be used to predict its future direction and magnitude. This book is built upon excerpts of presentations made during the last thirty years that analyze the business and technology of the semiconductor industry. In most cases, the figures in the book are copies of the original slides as they were presented during one or more of those presentations. In general, they show how predictable the semiconductor industry has been. They should also provide insight into the future of the industry.

## IBM Power System S822 Technical Overview and Introduction

**IBM Redbooks** This IBM® Redpaper™ publication is a comprehensive guide covering the IBM Power System S822 (8284-22A) server that supports the IBM AIX® and Linux operating systems (OSes) running on bare metal, and the IBM i OS running under the VIOS. The objective of this paper is to introduce the major innovative Power S822 offerings and their relevant functions: The new IBM POWER8™ processor, which is available at frequencies of 3.42 GHz, and 3.89 GHz Significantly strengthened cores and larger caches Two integrated memory controllers with improved latency and bandwidth Integrated I/O subsystem and hot-pluggable PCIe Gen3 I/O slots Improved reliability, serviceability, and availability (RAS) functions IBM EnergyScale™ technology that provides features such as power trending, power-saving, capping of power, and thermal measurement This publication is for professionals who want to acquire a better understanding of IBM Power Systems™ products. This paper expands the current set of IBM Power Systems documentation by providing a desktop reference that offers a detailed technical description of the Power S822 system. This paper does not replace the latest marketing materials and configuration tools. It is intended as an additional source of information that, together with existing sources, can be used to enhance your knowledge of IBM server solutions.

## The Admiralties

### Operations of the 1st Cavalry Division (29 February-18 May, 1944).

## IBM Power Systems SR-IOV: Technical Overview and Introduction

**IBM Redbooks** This IBM® Redpaper™ publication describes the adapter-based virtualization capabilities that are being deployed in high-end IBM POWER7+™ processor-based servers. Peripheral Component Interconnect Express (PCIe) single root I/O virtualization (SR-IOV) is a virtualization technology on IBM Power Systems servers. SR-IOV allows multiple logical partitions (LPARs) to share a PCIe adapter with little or no run time involvement of a hypervisor or other virtualization intermediary. SR-IOV does not replace the existing virtualization capabilities that are offered as part of the IBM PowerVM® offerings. Rather, SR-IOV compliments them with additional capabilities. This paper describes many aspects of the SR-IOV technology, including: A comparison of SR-IOV with standard virtualization technology Overall benefits of SR-IOV Architectural overview of SR-IOV Planning requirements SR-IOV deployment models that use standard I/O virtualization Configuring the adapter for dedicated or shared modes Tips for maintaining and troubleshooting your system Scenarios for configuring your system This paper is directed to clients, IBM Business Partners, and system administrators who are involved with planning, deploying, configuring, and maintaining key virtualization technologies.

## Advances on Mechanics, Design Engineering and Manufacturing III

### Proceedings of the International Joint Conference on Mechanics, Design Engineering & Advanced Manufacturing, JCM 2020, June 2-4, 2020

**Springer Nature** This open access book gathers contributions presented at the International Joint Conference on Mechanics, Design Engineering and Advanced Manufacturing (JCM 2020), held as a web conference on June 2-4, 2020. It reports on cutting-edge topics in product design and manufacturing, such as industrial methods for integrated product and process design; innovative design; and computer-aided design. Further topics covered include virtual simulation and reverse engineering; additive manufacturing; product manufacturing; engineering methods in medicine and education; representation techniques; and nautical, aeronautics and aerospace design and modeling. The book is organized into four main parts, reflecting the focus and primary themes of the conference. The contributions presented here not only provide researchers, engineers and experts in a range of industrial engineering subfields with extensive information to support their daily work; they are also intended to stimulate new research directions, advanced applications of the methods discussed and future interdisciplinary collaborations.

## NX 11 for Beginners

**Createspace Independent Publishing Platform** NX 11 For Beginners introduces you to the basics of NX 11 by using step-by-step instructions. You begin with brief introduction to NX 11 and the User Interface, ribbon, environments, commands, and various options. Within a short time, you will learn to create 2D sketches that form the basis for 3D models. You will learn to sketch on three different planes (Front, Top and Right planes). You will use various sketching tools such as line, rectangle, circle, and so on. You will also learn to modify sketches using tools such as trim, extend, fillets, and so on. Learn to use geometric constraints and dimensions to achieve a definite shape and size of the sketch. Sketches are converted into 3D features such as Extrude, Revolve, and so on. You combine or subtract features to achieve the final part. You can also add placed features (sketch less features) such as Fillets, and Holes to the 3D geometry. You explore mirroring and patterning commands to create repetitive features. You will learn to use some additional modeling tools and work with multi-body parts. Learn to modify part geometry by editing sketches and feature parameters. You explore Synchronous Modeling tools to modify the Part geometry by modifying its faces. You build assemblies after creating parts. There are two methods to build assemblies: Bottom-up and Top-down. In the Bottom-up method, you bring all the parts together and add constraints between them. In the Top-down method, you create parts in the assembly level. You explode assemblies to show the manner in which they were assembled. You create Drawings of the parts and assemblies. You insert part views and add dimensions and annotations to complete the drawing. In case of assembly drawings, you insert assembly views, add Bill of Materials, Balloons, and Revision table. The Sheet Metal design chapter covers various tools used to build sheet metal parts from scratch. You will also learn to convert an existing part geometry into sheet metal part. You also create flat patterns and 2D sheet metal drawings. Finally, you explore the surface modeling tools used to create complex shapes. Table of Contents 1. Getting Started with NX 11 2. Sketch Techniques 3. Extrude and Revolve Features 4. Placed Features 5. Patterned Geometry 6. Additional Features and Multibody Parts 7. Modifying Parts 8. Assemblies 9. Drawings 10. Sheet Metal Design 11. Surface Design If you are an educator, you can request a free evaluation copy by sending us an email to online.books999@gmail.com

## Ordinary Heroes

### A Memoir of 9/11

**Penguin** New York Times Bestseller From the first FDNY chief to respond to the 9/11 attacks, an intimate memoir and a tribute to those who died that others might live When Chief Joe Pfeifer led his firefighters to investigate an odor of gas in downtown Manhattan on the morning of 9/11, he had no idea that his life was about to change forever. A few moments later, he watched as the first plane crashed into the World Trade Center. Pfeifer, the closest FDNY chief to the scene, spearheaded rescue efforts on one of the darkest days in American history. Ordinary Heroes is the unforgettable and intimate account of what Chief Pfeifer witnessed at Ground Zero, on that day and the days that followed. Through his eyes, we see the horror of the attack and the courage of the firefighters who ran into the burning towers to save others. We see him send his own brother up the stairs of the North Tower, never to return. And we walk with him and his fellow firefighters through weeks of rescue efforts and months of numbing grief, as they wrestle with the real meaning of heroism and leadership. This gripping narrative gives way to resiliency and a determination that permanently reshapes Pfeifer, his fellow firefighters, NYC, and America. Ordinary Heroes takes us on a journey that turns traumatic memories into hope, so we can make good on our promise to never forget 9/11.

## The NASTRAN Theoretical Manual

### Product Lifecycle Management for Digital Transformation of Industries

### 13th IFIP WG 5.1 International Conference, PLM 2016, Columbia, SC, USA, July 11-13, 2016, Revised Selected Papers

**Springer** This book constitutes the refereed proceedings of the 13th IFIP WG 5.1 International Conference on Product Lifecycle Management, PLM 2016, held in Columbia, SC, USA, in July 2016. The 57 revised full papers presented were carefully reviewed and selected from 77 submissions. The papers are organized in the following topical sections: knowledge sharing, re-use and preservation; collaborative development architectures; interoperability and systems integration; lean product development and the role of PLM; PLM and innovation; PLM tools; cloud computing and PLM tools; traceability and performance; building information modeling; big data analytics and business intelligence; information lifecycle management; industry 4.0; metrics, standards and regulation; and product, service and systems.

## Document Management with SAP DMS

**SAP PRESS** • Set up an effective document management solution with SAP DMS • Master DMS functionality and configuration • Explore the practical application of DMS with real-world examples and tips • Up to date for ERP 6, PLM 7.01 and 7.02 • 2nd edition! Updated and expanded! Managing the creation, storage, and security of documentation is vital to enterprises. This complete and practical resource will guide you seamlessly through SAP DMS for the real world. Project managers, functional users, and consultants will learn everything they need to know to configure and use SAP DMS. With step-by-step instructions and real-world scenarios, this is a must-have book for anyone interested in learning about and creating an efficient, effective document management system using SAP. Introduction to DMS Discover what SAP DMS is, what questions to ask before starting your DMS project, and how to execute basic DMS transactions, such as create, change, and display. Practical Workflow Create a basic approval workflow, or move on to more complex document workflows with details on how to use BADIs and user exits. DMS Configuration Explore SAP DMS configuration with detailed insight on the

configuration of process routes, number ranges, lab offices, and more. Integration Understand the tools for integrating SAP DMS with CAD and Microsoft and explore the benefits and challenges of integration. DMS Expanded Includes expanded and new coverage of PLM 7.01 and 7.02, including details on SAP Easy DMS, Web UI, and other features and functionality.

## Simulations with NX / Simcenter 3D

### Kinematics, FEA, CFD, EM and Data Management

**Carl Hanser Verlag GmbH Co KG** Testing and optimizing digital products with Siemens NX and Simcenter 3D In times of Industry 4.0 the digitalization of the value-chain becomes more and more important. The so-called digital twin allows simulations that are very close to reality. This book provides all necessary basics to perform simple as well as complex simulations with NX and Simcenter 3D (former NX CAE). It is aimed at design engineers, CAE engineers and engineering students. The following topics are covered in the book: - Motion Simulation (MBD) - Design Simulation (FEA, Nastran) - Simcenter/Advanced Simulation (FEA, CFD and EM) - Management of Calculation and Simulation Data (Teamcenter for Simulation) Starting off with brief theoretical introductions each chapter contains learning tasks of increasing difficulty. Most of them are based on the CAD model of the legendary Opel RAK2. The presented methods are based on NX 12 and Simcenter 3D, the new 3D CAE solution. Revised topics in this edition are Motion Simulation with the new Simcenter Motion solver and post-processing in Simcenter 3D (FEA). The CAD data and calculation results of all exercises can be found online. The exercises can be completed in NX 11, NX 12 and probably later versions.

## The NASTRAN Theoretical Manual

### DHM and Posturography

**Academic Press** DHM and Posturography explores the body of knowledge and state-of-the-art in digital human modeling, along with its application in ergonomics and posturography. The book provides an industry first introductory and practitioner focused overview of human simulation tools, with detailed chapters describing elements of posture, postural interactions, and fields of application. Thus, DHM tools and a specific scientific/practical problem - the study of posture - are linked in a coherent framework. In addition, sections show how DHM interfaces with the most common physical devices for posture analysis. Case studies provide the applied knowledge necessary for practitioners to make informed decisions. Digital Human Modelling is the science of representing humans with their physical properties, characteristics and behaviors in computerized, virtual models. These models can be used standalone, or integrated with other computerized object design systems, to design or study designs, workplaces or products in their relationship with humans. Presents an introductory, up-to-date overview and introduction to all industrially relevant DHM systems that will enable users on trialing, procurement decisions and initial applications Includes user-level examples and case studies of DHM application in various industrial fields Provides a structured and posturography focused compendium that is easy to access, read and understand

## Product Lifecycle Management

### Terminology and Applications

**BoD - Books on Demand** The aim of this book is to present the terminology, applications, trends, and developments in Product Lifecycle Management (PLM). This book has a total of seven chapters that treat the fundamental and future terminology used in PLM, aspects regarding the design, customization, and development of products, products testing, supply chain optimization, and recycling of the products made of special materials.