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Building Secure and Reliable Systems Designing Distributed Systems  
Advanced Free Space Optics (FSO) Systems Within Systems Signals and  
Systems (Edition 3.0) Dive Into Systems Real-Time Systems,  
Architecture, Scheduling, and Application Modern Information Systems  
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Geoid and Height Systems Systems Engineering Practice Directions for  
the Next Generation of MMIC Devices and Systems The Systems Mindset  
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Free Radicals and Antioxidants Industrial Education Intelligent  
Systems and Soft Computing for Nuclear Science and Industry

## **Building Secure and Reliable Systems 2020-03-16**

can a system be considered truly reliable if it isn't fundamentally secure or can it be considered secure if it's unreliable security is crucial to the design and operation of scalable systems in production as it plays an important part in product quality performance and availability in this book experts from google share best practices to help your organization design scalable and reliable systems that are fundamentally secure two previous o'reilly books from google site reliability engineering and the site reliability workbook demonstrated how and why a commitment to the entire service lifecycle enables organizations to successfully build deploy monitor and maintain software systems in this latest guide the authors offer insights into system design implementation and maintenance from practitioners who specialize in security and reliability they also discuss how building and adopting their recommended best practices requires a culture that's supportive of such change you'll learn about secure and reliable systems through design strategies recommendations for coding testing and debugging practices strategies to prepare for respond to and recover from incidents cultural best practices that help teams across

your organization collaborate effectively

## **Designing Distributed Systems 2018-02-20**

without established design patterns to guide them developers have had to build distributed systems from scratch and most of these systems are very unique indeed today the increasing use of containers has paved the way for core distributed system patterns and reusable containerized components this practical guide presents a collection of repeatable generic patterns to help make the development of reliable distributed systems far more approachable and efficient author brendan burns director of engineering at microsoft azure demonstrates how you can adapt existing software design patterns for designing and building reliable distributed applications systems engineers and application developers will learn how these long established patterns provide a common language and framework for dramatically increasing the quality of your system understand how patterns and reusable components enable the rapid development of reliable distributed systems use the side car adapter and ambassador patterns to split your application into a group of containers on a single machine explore loosely coupled multi node

distributed patterns for replication scaling and communication between the components learn distributed system patterns for large scale batch data processing covering work queues event based processing and coordinated workflows

## **Advanced Free Space Optics (FSO) 2014-09-10**

this title provides a comprehensive unified tutorial covering the most recent advances in the emerging technology of free space optics fso a field in which interest and attention continue to grow along with the number of new challenges this book is intended as an all inclusive source to serve the needs of those who require information about the fundamentals of fso as well as up to date advanced knowledge of the state of the art in the technologies available today this text is intended for graduate students and will also be useful for research scientists and engineers with an interest in the field fso communication is a practical solution for creating a three dimensional global broadband communications grid offering bandwidths far beyond what is possible in the radio frequency rf range however the attributes of atmospheric turbulence and scattering impose perennial

limitations on availability and reliability of fso links from a systems point of view this groundbreaking book provides a thorough understanding of channel behavior which can be used to design and evaluate optimum transmission techniques that operate under realistic atmospheric conditions topics addressed include fso physical and statistical models single multiple inputs outputs understanding fso theory and systems analysis modulation and coding for free space optical channels atmospheric mitigation and compensation for fso links non line of sight nlos ultraviolet and indoor fso communications fso platforms uav and mobile retromodulators for free space data links hybrid optical rf communications free space and atmospheric quantum communications other related topics chaos based and terahertz thz fso communications

## **Systems Within Systems 2017**

this book is intended for use in teaching undergraduate courses on continuous time and or discrete time signals and systems in engineering and related disciplines it provides a detailed introduction to continuous time and discrete time signals and systems

with a focus on both theory and applications the mathematics underlying signals and systems is presented including topics such as signal properties elementary signals system properties continuous time and discrete time linear time invariant systems convolution continuous time and discrete time fourier series the continuous time and discrete time fourier transforms frequency spectra and the bilateral and unilateral laplace and z transforms applications of the theory are also explored including filtering equalization amplitude modulation sampling feedback control systems circuit analysis laplace domain techniques for solving differential equations and z domain techniques for solving difference equations other supplemental material is also included such as a detailed introduction to matlab a review of complex analysis an introduction to partial fraction expansions an exploration of time domain techniques for solving differential equations and information on online video lecture content for material covered in the book throughout the book many worked through examples are provided problem sets are also provided for each major topic covered

## ***Signals and Systems (Edition 3.0) 2020-12-15***

dive into systems is a vivid introduction to computer organization architecture and operating systems that is already being used as a classroom textbook at more than 25 universities this textbook is a crash course in the major hardware and software components of a modern computer system designed for use in a wide range of introductory level computer science classes it guides readers through the vertical slice of a computer so they can develop an understanding of the machine at various layers of abstraction early chapters begin with the basics of the c programming language often used in systems programming other topics explore the architecture of modern computers the inner workings of operating systems and the assembly languages that translate human readable instructions into a binary representation that the computer understands later chapters explain how to optimize code for various architectures how to implement parallel computing with shared memory and how memory management works in multi core cpus accessible and easy to follow the book uses images and hands on exercise to break down complicated topics including code examples that can be modified and executed



## ***Dive Into Systems 2022-09-20***

this book is a rich text for introducing diverse aspects of real time systems including architecture specification and verification scheduling and real world applications it is useful for advanced graduate students and researchers in a wide range of disciplines impacted by embedded computing and software since the book covers the most recent advances in real time systems and communications networks it serves as a vehicle for technology transition within the real time systems community of systems architects designers technologists and system analysts real time applications are used in daily operations such as engine and break mechanisms in cars traffic light and air traffic control and heart beat and blood pressure monitoring this book includes 15 chapters arranged in 4 sections architecture chapters 1 4 specification and verification chapters 5 6 scheduling chapters 7 9 and real word applications chapters 10 15

## **Real-Time Systems, Architecture, Scheduling, and Application 2012-04-11**

the development of modern information systems is a demanding task new technologies and tools are designed implemented and presented in the market on a daily bases user needs change dramatically fast and the it industry copes to reach the level of efficiency and adaptability for its systems in order to be competitive and up to date thus the realization of modern information systems with great characteristics and functionalities implemented for specific areas of interest is a fact of our modern and demanding digital society and this is the main scope of this book therefore this book aims to present a number of innovative and recently developed information systems it is titled modern information systems and includes 8 chapters this book may assist researchers on studying the innovative functions of modern systems in various areas like health telematics knowledge management etc it can also assist young students in capturing the new research tendencies of the information systems development

## **Modern Information Systems 2012**

this book is organized around three concepts fundamental to os  
construction virtualization of cpu and memory concurrency locks and  
condition variables and persistence disks raids and file systems back  
cover

## **NASA Tech Briefs 1993**

this volume includes a selection of papers presented at the iag  
international symposium gravity geoid and height systems 2012 gghs2012  
which was organized by iag commission 2 gravity field with the  
assistance of the international gravity field service igfs and ggos  
theme 1 unified global height system the book summarizes the latest  
results on gravimetry and gravity networks global gravity field  
modeling and applications future gravity field missions it provides a  
detailed compilation on advances in precise local and regional high  
resolution geoid modeling the establishment and unification of  
vertical reference systems contributions to gravity field and mass  
transport modeling as well as articles on the gravity field of

planetary bodies

## **The Publishers Weekly 1883**

proceedings of the 1996 wri international symposium held in new york  
city september 11 13 1996

## **Operating Systems 2018-09**

fix the machinery of your life and serenity and wealth will follow  
starkly compelling in its simplicity in the systems mindset managing  
the machinery of your life sam carpenter expands on the core  
inspirational element of his business bestseller work the system the  
simple mechanics of making more and working less now in its third  
edition mindset is your path to quickly breaking free to making a  
small tweak in how you see your world and then using that more  
accurate vision to get what you ve always wanted from work  
relationships and health when the systems mindset epiphany strikes you  
will instantly see the visible and invisible machinery that determines  
your existence with this startling new perception you ll see that your

world is not a confusing array of sights sounds and events and instead grasp that it s a simple and logical collection of systems systems that can be quickly adjusted to deliver the life results you ve always wanted you will never be the same

## **Gravity, Geoid and Height Systems *2015-01-13***

represents the first integrated effort to deal with age as a crucial variable in the social system of special interest to sociologists for whom the sociology of age seems destined to become a special field

## **Systems Engineering Practice *2014-01-01***

climate change will present a series of challenges to engineers concerned with the provision of both building internal appliance drainage networks and rainwater systems within the building boundary generally identified as the connection to the sewer network climate change is now recognised as presenting both water shortage and enhanced rainfall design scenarios in response to predictions about immanent climate change transient free surface flows in building

drainage systems addresses problems such as the reduction in water available to remove waste from buildings and conversely the increase in frequency of tropical type torrential rain starting with introductory chapters that explain the theories and principles of solid transport free surface flows within drainage networks and attenuating appliance discharge flows this book allows readers from a variety of backgrounds to fully engage with this crucial subject matter later chapters apply these theories to the design of sanitary and rainwater systems case studies highlight the applicability of the method in assessing the appropriateness of design approaches in this unique book research in modelling for free surface flows at edinburgh s heriot watt university is drawn on to provide a highly authoritative physics based study of this complex engineering issue

## ***Directions for the Next Generation of MMIC Devices and Systems 2013-11-11***

cryogen free cryogenics is leading a revolution in research and industry by its significant advantages over traditional liquid helium

systems this is the first overview for the field covering the key technologies conceptual design fabrication operation performance and applications of these systems the contents cover important topics such as the operating principles of 4k cryocoolers enabling technologies including vibration reduction for cryogen free systems the cryogen free superconducting magnet and cryogen free systems that reach mk it highlights the wide range of applications in materials science quantum physics astronomy and space science medical sciences and etc key features introduce technologies and practical know how employed for cryogen free systems of using 4 k cryocoolers to replace liquid helium address state of the arts of cryogen free superconducting magnets sub kelvin refrigeration systems of he 3 sorption cooler adiabatic demagnetization refrigerator adr and dilution refrigerators dr discuss applications of cryogen free systems in modern instruments and equipment

## ***The Systems Mindset 2016-05-03***

the material in electronics circuits and systems is a truly up to date textbook with coverage carefully matched to the electronics units of

the 2007 btec national engineering and the latest as and a level specifications in electronics from aqa ocr and wjec the material has been organized with a logical learning progression making it ideal for a wide range of pre degree courses in electronics the approach is student centred and includes numerous examples and activities web research topics self test features highlighted key facts formulae and definitions each chapter ends with a set of problems including exam style questions and multiple choice questions the book is now also supported by a companion website featuring extensive support for students and lecturers including answers to the questions in the book interactive exercises extra math support and selected illustrations from the book

## **Aging and Society 1972-03-15**

this new edition of the well established text scheduling theory algorithms and systems provides an up to date coverage of important theoretical models in the scheduling literature as well as significant scheduling problems that occur in the real world it again includes supplementary material in the form of slide shows from industry and



movies that show implementations of scheduling systems the main structure of the book as per previous edition consists of three parts the first part focuses on deterministic scheduling and the related combinatorial problems the second part covers probabilistic scheduling models in this part it is assumed that processing times and other problem data are random and not known in advance the third part deals with scheduling in practice it covers heuristics that are popular with practitioners and discusses system design and implementation issues all three parts of this new edition have been revamped and streamlined the references have been made completely up to date theoreticians and practitioners alike will find this book of interest graduate students in operations management operations research industrial engineering and computer science will find the book an accessible and invaluable resource scheduling theory algorithms and systems will serve as an essential reference for professionals working on scheduling problems in manufacturing services and other environments reviews of third edition this well established text covers both the theory and practice of scheduling the book begins with motivating examples and the penultimate chapter discusses some commercial scheduling systems and examples of their implementations mathematical reviews 2009

## **Harmonized Tariff Schedule of the United States 1997**

popular science gives our readers the information and tools to improve their technology and their world the core belief that popular science and our readers share the future is going to be better and science and technology are the driving forces that will help make it better

## ***Transient Free Surface Flows in Building Drainage Systems 2015-08-20***

in this book the author examines the stubborn philosophical belief in moral responsibility surveying the philosophical arguments for it but focusing on the system that supports these arguments powerful social and psychological factors that hold the belief in moral responsibility firmly in place publisher s description

# **Cryogenic Engineering and Technologies**

## **2019-10-16**

south carolina s current constitution is a unique reflection of america s cultural and political history it has roots dating back to the state s original colonial charter comprising an uneasy alliance of post civil war history late 19th century return to segregation and post 1960s liberalizing reforms in the south carolina state constitution cole blease graham illustrates the success of positive political forces pitted against the social norms of a deep south state his informed analysis challenges advocates of constitutional reform to continue revision efforts making this volume an important contribution to the study of state politics and the principles of democratic government the south carolina state constitution provides an outstanding constitutional and historical account of the state s governing charter in addition to an overview of south carolina s constitutional history it provides an in depth section by section analysis of the entire constitution detailing the many significant changes that have been made since its initial drafting this treatment

along with a table of cases index and bibliography provides an unsurpassed reference guide for students scholars and practitioners of south carolina s constitution previously published by greenwood this title has been brought back in to circulation by oxford university press with new verve re printed with standardization of content organization in order to facilitate research across the series this title as with all titles in the series is set to join the dynamic revision cycle of the oxford commentaries on the state constitutions of the united states the oxford commentaries on the state constitutions of the united states is an important series that reflects a renewed international interest in constitutional history and provides expert insight into each of the 50 state constitutions each volume in this innovative series contains a historical overview of the state s constitutional development a section by section analysis of its current constitution and a comprehensive guide to further research under the expert editorship of professor g alan tarr director of the center on state constitutional studies at rutgers university this series provides essential reference tools for understanding state constitutional law books in the series can be purchased individually or as part of a complete set giving readers

unmatched access to these important political documents

## **Electronics - Circuits and Systems 2007-11-09**

in this volume a theory for models of transport in the presence of a free boundary is developed macroscopic laws of transport are described by pde s when the system is open there are several mechanisms to couple the system with the external forces here a class of systems where the interaction with the exterior takes place in correspondence of a free boundary is considered both continuous and discrete models sharing the same structure are analysed in part i a free boundary problem related to the stefan problem is worked out in all details for this model a new notion of relaxed solution is proposed for which global existence and uniqueness is proven it is also shown that this is the hydrodynamic limit of the empirical mass density of the associated particle system in part ii several other models are discussed the expectation is that the results proved for the basic model extend to these other cases all the models discussed in this volume have an interest in problems arising in several research fields such as heat conduction queuing theory propagation of fire interface

dynamics population dynamics evolution of biological systems with selection mechanisms in general researchers interested in the relations between pde s and stochastic processes can find in this volume an extension of this correspondence to modern mathematical physics

## **Scheduling 2012-01-07**

the ability to measure and manipulate matter on the nanometer level is making possible a new generation of materials with enhanced mechanical optical transport and magnetic properties this important book summarises key developments in nanotechnology and their impact on the processing of metals polymers composites and ceramics after a brief introduction a number of chapters discuss the practical issues involved in the commercial production and use of nanomaterials other chapters review ways of nanoengineering steel aluminium and titanium alloys elsewhere the book discusses the use of nanoengineered metal hydrides to store hydrogen as an energy source and the development of nanopolymers for batteries and other energy storage devices other chapters discuss the use of nanotechnology to enhance the toughness of

ceramics the production of synthetic versions of natural materials such as bone and the development of nanocomposites nanostructure control of materials is an ideal introduction to the ways nanotechnology is being used to create new materials for industry it will be welcomed by r d managers in such sectors as automotive engineering as well as academics working in this exciting area reviews key developments in nanotechnology and their impact on various materials edited by leading experts in the field

## **Popular Science 1987-06**

since the publication of the best selling first edition the growing price and environmental cost of energy have increased the significance of tribology handbook of lubrication and tribology volume ii theory and design second edition demonstrates how the principles of tribology can address cost savings energy conservation and environmental pr

## **The Electrical Engineer 1897**

popular mechanics inspires instructs and influences readers to help them master the modern world whether it s practical diy home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science pm is the ultimate guide to our high tech lifestyle

## **The Stubborn System of Moral Responsibility 2015**

this title gives students an integrated and rigorous picture of applied computer science as it comes to play in the construction of a simple yet powerful computer system

## **The South Carolina State Constitution**



**2011-04-11**

molecular recognition also known as biorecognition is the heart of all biological interactions originating from protein stretching experiments dynamic force spectroscopy dfs allows for the extraction of detailed information on the unbinding process of biomolecular complexes it is becoming progressively more important in biochemical studies and is finding wider applications in areas such as biophysics and polymer science in six chapters dynamic force spectroscopy and biomolecular recognition covers the most recent ideas and advances in the field of dfs applied to biorecognition chapter 1 reviews the basic and novel aspects of biorecognition and discusses the emerging capabilities of single molecule techniques to disclose kinetic properties and molecular mechanisms usually hidden in bulk measurements chapter 2 describes the basic principle of atomic force microscopy afm and dfs with particular attention to instrumental and theoretical aspects more strictly related to the study of biomolecules chapter 3 overviews the theoretical background in which experimental data taken in nonequilibrium measurements of biomolecular unbinding forces are extrapolated to equilibrium conditions chapter 4 reviews

the most common and efficient strategies adopted in dfs experiments to immobilize the interacting biomolecules to the afm tip and to the substrate chapter 5 presents and discusses the most representative aspects related to the analysis of dfs data and the challenges of integrating well defined criteria to calibrate data in automatic routinary procedures chapter 6 overviews the most relevant dfs applications to study biorecognition processes including the biotin avidin pair and selected results on various biological complexes including antigen antibody proteins dna and complexes involved in adhesion processes chapter 7 summarizes the main results obtained by dfs applied to study biorecognition processes with forthcoming theoretical and experimental advances although dfs is a widespread worldwide technique no books focused on this subject have been available until now dynamic force spectroscopy and biomolecular recognition provides the state of the art of experimental data analysis and theoretical procedures making it a useful tool for researchers applying dfs to study biorecognition processes

## **Free Boundary Problems in PDEs and Particle Systems 2016-06-22**

comprising two volumes thermoelectrics and its energy harvesting reviews the dramatic improvements in technology and application of thermoelectric energy with a specific intention to reduce and reuse waste heat and improve novel techniques for the efficient acquisition and use of energy this volume modules systems and applications in thermoelec

## **Nanostructure Control of Materials 2006-02-28**

revolutions in communication offers a new approach to media history presenting an encyclopedic look at the way technological change has linked social and ideological communities using key figures in history to benchmark the chronology of technical innovation kovarik s exhaustive scholarship narrates the story of revolutions in printing electronic communication and digital information while drawing parallels between the past and present updated to reflect new research

that has surfaced these past few years revolutions in communication continues to provide students and teachers with the most readable history of communications while including enough international perspective to get the most accurate sense of the field the supplemental reading materials on the companion website include slideshows podcasts and video demonstration plans in order to facilitate further reading revolutionsincommunication com

## **Handbook of Lubrication and Tribology, Volume II 2012-07-06**

computer networks a systems approach fifth edition explores the key principles of computer networking with examples drawn from the real world of network and protocol design using the internet as the primary example this best selling and classic textbook explains various protocols and networking technologies the systems oriented approach encourages students to think about how individual network components fit into a larger complex system of interactions this book has a completely updated content with expanded coverage of the topics of

utmost importance to networking professionals and students including p2p wireless network security and network applications such as e mail and the ip telephony and video streaming and peer to peer file sharing there is now increased focus on application layer issues where innovative and exciting research and design is currently the center of attention other topics include network design and architecture the ways users can connect to a network the concepts of switching routing and internetworking end to end protocols congestion control and resource allocation and end to end data each chapter includes a problem statement which introduces issues to be examined shaded sidebars that elaborate on a topic or introduce a related advanced topic what s next discussions that deal with emerging issues in research the commercial world or society and exercises this book is written for graduate or upper division undergraduate classes in computer networking it will also be useful for industry professionals retraining for network related assignments as well as for network practitioners seeking to understand the workings of network protocols and the big picture of networking completely updated content with expanded coverage of the topics of utmost importance to networking professionals and students including p2p wireless security and

applications increased focus on application layer issues where innovative and exciting research and design is currently the center of attention free downloadable network simulation software and lab experiments manual available

## **Popular Mechanics 1995-05**

this volume contains papers presented at the bcs facs workshop on specification and verification of concurrent systems held on 6 8 july 1988 at the university of stirling scotland specification and verification techniques are playing an increasingly important role in the design and production of practical concurrent systems the wider application of these techniques serves to identify difficult problems that require new approaches to their solution and further developments in specification and verification the workshop aimed to capture this interplay by providing a forum for the exchange of the experience of academic and industrial experts in the field presentations included surveys original research practical experience with methods tools and environments in the following or related areas object oriented process data and logic based models and specification methods for concurrent

systems verification of concurrent systems tools and environments for the analysis of concurrent systems applications of specification languages to practical concurrent system design and development we should like to thank the invited speakers and all the authors of the papers whose work contributed to making the workshop such a success we were particularly pleased with the international response to our call for papers invited speakers pierre america philips research laboratories university of warwick professor m joseph david freestone british telecom organising committee charles rattray dr muffy thomas dr simon jones dr john cooke professor ken turner derek coleman maurice naftalin dr peter scharbach vi preface we would like to acknowledge the financial contribution made by sd systems designers pie camberley surrey

## **The Elements of Computing Systems 2008**

the papers presented at the symposium covered the areas in aerospace technology where automatic control plays a vital role these included navigation and guidance space robotics flight management systems and satellite orbital control systems the information provided reflects

the recent developments and technical advances in the application of automatic control in space technology

## **Dynamic Force Spectroscopy and Biomolecular Recognition 2012-01-25**

this book constitutes the proceedings of the 11th ifip wg 10 3 international conference on network and parallel computing npc 2014 held in ilan taiwan in september 2014 the 42 full papers and 24 poster papers presented were carefully reviewed and selected from 196 submissions they are organized in topical sections on systems networks and architectures parallel and multi core technologies virtualization and cloud computing technologies applications of parallel and distributed computing and i o file systems and data management

## **Modules, Systems, and Applications in**



## **Thermoelectrics 2012-04-25**

the focus of this collection of illustrated reviews is to discuss the systems biology of free radicals and anti oxidants free radical induced cellular damage in a variety of tissues and organs is reviewed with detailed discussion of molecular and cellular mechanisms the collection is aimed at those new to the field as well as clinicians and scientists with long standing interests in free radical biology a feature of this collection is that the material also brings insights into various diseases where free radicals are thought to play a role there is extensive discussion of the success and limitations of the use of antioxidants in several clinical settings

## **Revolutions in Communication 2015-11-19**

following flins 94 the 1st international workshop on fuzzy logic and intelligent technologies in nuclear science flins 96 aimed to introduce the principles of intelligent systems and soft computing such as fuzzy logic neural networks genetic algorithms and any combination of these three knowledge based expert systems and complex

problem solving techniques in nuclear science and industry and in related fields this volume presents carefully selected papers drawn from more than 20 countries it covers theoretical aspects of intelligent systems and soft computing together with their applications in nuclear science and industry contents fuzzy algorithmic and knowledge based decision support in nuclear engineering h j zimmermann problem solving with multiple interdependent criteria better solutions to complex problems c carlsson r fullér functional modelling for integration of human software hardware in complex physical systems m modarres applying the transferable belief model to diagnostic problems p smets application of fuzzy decision making to countermeasure strategies after a nuclear accident x liu d ruan a fuzzy control algorithm for a mobile robot to move pass obstacles b s moon j lee experiments of fuzzy logic control on a nuclear research reactor z liu d ruan intelligent engineering and technology for nuclear power plant operation p p wang x l gu improved method for incipient multiple fault diagnosis with application to nuclear power plant h y chung et al a fuzzy controller for npps g h schildt expert environment for the development of nuclear power plants failure diagnosis systems p n guido et al integrating information in a

real time data visualization system on nuclear power plant e g galdoz  
et al and other papers readership scientists and researchers in  
artificial intelligence neural networks fuzzy logic robotics software  
engineering nuclear engineering industrial chemistry nuclear physics  
mathematical physics and applied mathematics keywords

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Systems 2013-11-11**

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**Network and Parallel Computing 2014-08-23**

**Systems Biology of Free Radicals and  
Antioxidants 2014-06-16**

**Industrial Education 1975**

***Intelligent Systems and Soft Computing for  
Nuclear Science and Industry 1996-07-29***

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