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Principles of Human Organs-on-Chips Lighting for Televised Live Events 3D Printing Technology Introduction to Computer Science Applied Digital Optics Additive Manufacturing 3D Printing Digital Dentistry Techniques and Principles in Three-Dimensional Imaging: An Introductory Approach Computer Graphics, 3/e PC Mag Displays The Live Event Video Technician The Reshaping of China's Industry Chains Popular Photography PC Mag Proceedings of the 41st International Conference on Advanced Ceramics and Composites, Volume 38, Issue 3 Projection Displays Digital Cinematography Digital Cinematography The Projection Designer's Toolkit Thin Films, Atomic Layer Deposition, and 3D Printing Biomaterials for Bone Regeneration Closed Circuit Television Advanced Nondestructive Detection Technologies in Food Future Communication, Computing, Control and Management PC Mag Additive Manufacturing Market Opportunity for Glass Lenses in Micro-display Projection Televisions 3D□□□□□□□□ PC Mag Automated Lighting Materials Development by Additive Manufacturing Techniques The Cinema in Flux Cockpit and Future Displays for Defense and Security Newnes Guide to Television and Video Technology Sound & Vision A Far-Infrared Spectro-Spatial Space Interferometer PC Mag The Digitization of Business in China

Principles of Human Organs-on-Chips *2023-01-17*

principles of human organs on chips covers all aspects of microfluidic organ on a chip systems from fabrication to application and commercialization organ on a chip models are created to mimic the structural microenvironmental and physiological functions of human organs providing the potential to bypass some cell and animal testing methods this is a useful platform with widespread applications frequently in drug screening and pathological studies this book offers a comprehensive and authoritative reference on microfluidic organs on chips spanning all key aspects from fabrication methods cell culture systems and cell based analysis to dedicated chapters on specific tissue types and their associated organ on a chip models as well as their use as disease models drug screening platforms and more principles of human organs on chips helps materials scientists and biomedical engineers to better understand the specific requirements and challenges in the design and fabrication of organ on a chip devices this book also bridges the knowledge gap between medical device design and subsequent clinical applications allowing medical professionals to easily learn about related engineering concepts and techniques describes various microfluidic systems and fabrication methods covers models and applications for a broad range of tissue types including liver eye immune gut and more offers an interdisciplinary approach combining engineering techniques and clinical applications of organs on chips

Lighting for Televised Live Events *2021-05-30*

lighting for televised live events unlocks the science art philosophies and language of creating lighting for live entertainment and presentations that work for the television camera as well as for the live audience the book explores how to retain the essence and excitement of a live production while assuring that the show looks its best on camera for the millions of viewers that can only see it on their tv computer tablet or mobile phone screen readers will learn how to adapt an existing stage show for the camera as well as how to design live entertainment or events specifically for tv filled with real life examples and illustrations the book covers a wide range of topics including how exposure and color work for the camera how angle visual balance and composition can make people and backgrounds look their best while preserving theatricality information on camera equipment screens and projectors as well as the control room environments that are found on a professional shoot the unique challenges of lighting for the imag video screens used at festivals and concerts lighting for televised live events is aimed at lighting design students as well as professional designers that are considering a career or a career expansion in television it is an essential resource for any stage lighting designer whose show may be shot for a television special or a live webcast and who will be asked by their client to collaborate with the incoming video team

3D Printing Technology *2022-10-01*

the history of 3d printing also known as additive manufacturing began as a tool for rapid prototype development one of its primary uses this initial success paved the way for the widespread adoption of 3d printing in industries as varied as manufacturing medicine architecture custom art design and many more this book 3d technology dives into the exciting and varied uses of 3d printing across many fields from the food and beverage industries to the environmental sciences biotechnology medical devices energy storage civil engineering the textile and fashion industries and many more rapid advancements in 3d printing technology are revolutionizing product development and production processes throughout global supply chains the aerospace and automotive sectors were early adopters of 3d printing however the technology has spread to a wide variety of other fields including jewelry creation architecture medicine storage devices biotechnology this book also explores into a wide range of these varied uses including the several 3d

printing techniques popular materials etc in addition to discussing the background and current state iv of additive manufacturing this book investigates the potential of 3d printing technology to advance scholarly discourse the comprehensive coverage of 3d printing s many uses in engineering technology and other fields makes this book an invaluable resource

Introduction to Computer Science 2011

discusses most ideas behind a computer in a simple and straightforward manner the book is also useful to computer enthusiasts who wish to gain fundamental knowledge of computers

Applied Digital Optics *2009-11-04*

miniaturization and mass replications have begun to lead the optical industry in the transition from traditional analog to novel digital optics as digital optics enter the realm of mainstream technology through the worldwide sale of consumer electronic devices this timely book aims to present the topic of digital optics in a unified way ranging from micro optics to nanophotonics and design to fabrication through to integration in final products it reviews the various physical implementations of digital optics in either micro refractives waveguide planar lightwave chips diffractive and hybrid optics or sub wavelength structures resonant gratings surface plasmons photonic crystals and metamaterials finally it presents a comprehensive list of industrial and commercial applications that are taking advantage of the unique properties of digital optics applied digital optics is aimed primarily at optical engineers and product development and technical marketing managers it is also of interest to graduate level photonics students and micro optic foundries helps optical engineers review and choose the appropriate software tools to design model and generate fabrication files gives product managers access to an exhaustive list of applications available in today s market for integrating such digital optics as well as where the next potential application of digital optics might be provides a broad view for technical marketing managers in all aspects of digital optics and how such optics can be classified explains the numerical implementation of optical design and modelling techniques enables micro optics foundries to integrate the latest fabrication and replication techniques and accordingly fine tune their own fabrication processes

Additive Manufacturing 2019-09-17

there is a growing need for manufacturing optimization all over the world the immense market of additive manufacturing am technologies dictates a need for a book that will provide knowledge of the various aspects of am for anyone interested in learning about this fast growing topic this book disseminates knowledge of am amongst scholars at graduate level post graduate level doctoral level as well as industry personnel the objective is to offer a state of the art book which covers all aspects of am and incorporates all information regarding trends historical developments classifications materials tooling software issues dynamic design principles limitations and communication interfaces in a one stop resource features breaks down systematic coverage of various aspects of am within four distinct sections contains details of various am techniques based on astm guidelines discusses many am applications with suitable illustrations includes recent trends in the field of am covers engineering materials utilized as raw materials in am compares am techniques with different traditional manufacturing methods

3D Printing *2018-10-10*

this book 3d printing is divided into two parts the first part is devoted to the relationship between 3d printing and engineering and the second part shows the impact of 3d printing on the medical sector in general there are five sections in the first part sections are dedicated to stereolithography new techniques of high resolution 3d printing application of 3d printers in architecture and civil engineering the additive production with the metal components and the management of production by using previously mentioned technology in more complex ways there are four chapters in the second part with the following topics education of medical staff through surgical simulations tissue engineering and potential applications of 3d printing in ophthalmology and orthopedics

Digital Dentistry *2022-08-09*

an indispensable introduction to using digital technology in dentistry digital dentistry a step by step guide and case atlas provides basic information on the use of digital resources to find a diagnosis create a treatment plan and execute that strategy within different dental specialisms this manual includes the science behind all procedures that use digital technology and provides a clinical step by step guide toward the use of these developments for every dental specialty area users will find a wide range of areas covered from prosthodontics restorative dentistry and endodontics to oral and maxillofacial surgery and public health this book also includes a guide to all current basic digital imaging and cad cam procedures with an emphasis on the most popular systems and software programs an atlas of multidisciplinary cases that were treated with digital dentistry from diagnosis and treatment planning to execution and follow up in order of complexity assessment of the scientific basis for using digital dentistry in each category a presentation of clinical cases to support the use of digital methodologies in all relevant scenarios an exploration of the role of digital dentistry in dental public health preventive dentistry and dental education ideal for dental clinicians general practitioners and specialists as well as all other dental professionals such as dental technologists dental hygienists and dental students digital dentistry a step by step guide and case atlas is an essential tool and reference work to help dental practitioners streamline and update their practice with the most up to date technologies

Techniques and Principles in Three-Dimensional Imaging: An Introductory Approach *2013-12-31*

this book provides the reader with a concrete understanding of basic principles and pitfalls for 3 d capturing highlighting stereoscopic imaging systems including holography

Computer Graphics, 3/e *2013-08-17*

the present book provides fundamentals of computer graphics and its applications it helps the reader to understand how computer hardware interacts with computer graphics how it draws various objects namely line circle parabola hyperbola etc how realistic images are formed how we see pictures move and how different colors are generated from visible light at every stage detailed experiments with suitable figures are provided more than 250 unsolved problems have been given at the end of chapters in the book a large number of solved examples and programs in c are provided in the appendices

PC Mag *1996-10-08*

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Displays *2016-12-12*

in the extensive fields of optics holography and virtual reality technology continues to evolve displays fundamentals and applications second edition addresses these updates and discusses how real time computer graphics and vision enable the application and displays of graphical 2d and 3d content this book explores in detail these technological developments as well as the shifting techniques behind projection displays projector camera systems stereoscopic and autostereoscopic displays this new edition contains many updates and additions reflecting the changes in fast developing areas such as holography and near eye displays for augmented and virtual reality applications perfect for the student looking to sharpen their developing skill or the master refining their technique rolf hainich and oliver bimber help the reader understand the basics of optics light modulation visual perception display technologies and computer generated holography with almost 500 illustrations displays will help the reader see the field of augmentation and virtual reality display with new eyes features covers physics technology and techniques behind flat panel as well as projection displays projector camera systems stereoscopic and autostereoscopic displays computer generated holography and near eye displays discusses how real time computer graphics and computer vision enable the visualization of graphical 2d and 3d content augmented by close to 500 rich illustrations which give readers a clear understanding of existing and emerging display technology

The Live Event Video Technician *2022-07-29*

the live event video technician covers terms format types concepts and technologies used in video production for corporate meetings concerts special events and theatrical productions the book begins by providing a history of the industry and an overview of important roles and functions therein it then discusses various display technologies such as led walls and video projection as well as video systems for converting and switching of various types of sources presenting the cornerstone formats connectors and methodologies of visual technology this book offers a strong foundation to help readers navigate this ever changing field written in an accessible tone the book clarifies jargon and is an overarching source of knowledge for the role of the video technician for which there has previously been little formal training the live event video technician provides a wealth of practical information for students of media and communications courses readers with a novice or entry level understanding of video and av production and anyone with an interest in working as technical personnel in live event production

The Reshaping of China's Industry Chains 2007-06

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Popular Photography 2003-07

this proceedings contains a collection of 24 papers from the american ceramic society s 41st international conference on advanced ceramics and composites held in daytona beach florida january 22 27 2017 this issue includes papers presented in the following symposia symposium 3 14th international symposium on solid oxide fuel cells sofc symposium 8 11th international symposium on advanced processing manufacturing technologies for structural multifunctional materials and systems symposium 11 advanced materials and innovative processing ideas for the production root technology symposium 12 materials for extreme environments ultrahigh temperature ceramics uhtcs and nano laminated ternary carbides and nitrides max phases symposium 13 advanced materials for sustainable nuclear fission and fusion energy symposium 14 crystalline materials for electrical optical and medical applications symposium 15 additive manufacturing and 3d printing technologies focused session 1 geopolymers chemically bonded ceramics eco friendly and sustainable materials

PC Mag *2018-01-15*

today s successful cinematographer must be equal parts artist technician and business person the cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done david stump s digital cinematography focuses on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus another and how those choices help creative cinematographers to tell a story this book empowers the reader to correctly choose the appropriate camera and workflow for their project from today s incredibly varied options as well as understand the ins and outs of implementing those options veteran asc cinematographer david stump has updated this edition with the latest technology for cameras lenses and recorders as well as included a new section on future cinematographic trends ideal for advanced cinematography students as well as working professionals looking for a resource to stay on top of the latest trends this book is a must read

Proceedings of the 41st International Conference on Advanced Ceramics and Composites, Volume 38, Issue 3 *1997*

first published in 2014 with the shift from film to digital a new view of the future of cinematography has emerged today s successful cinematographer must be equal parts artist technician and business person the cinematographer needs to master the arts of lighting composition framing and other aesthetic considerations as well as the technology of digital cameras recorders and workflows and must know how to choose the right tools within their budget to get the job done david stump s digital cinematography focusses primarily on the tools and technology of the trade looking at how digital cameras work the ramifications of choosing one camera versus another and how those choices help creative cinematographers to tell a story this book empowers you to both correctly choose the right camera and workflow for your project from today s incredibly varied options as well as understand the ins and outs of implementing those options stump sheds a light on the confusing advantages and disadvantages of shooting theatrical features using digital technology and what it can or can t do topics covered include detailed coverage of arriflex blackmagic canon ikonoskop panasonic panavision phantom red silicon imaging sony and weisscam digital motion picture cameras coverage of a wide variety of lenses including angenieux canon cooke fujinon hawk leica panavision red schneider sony uniqoptics vantage and zeiss coverage of recorders displays and look management tools exposure theory tips learn how

to correctly expose digital cameras focusing tips learn how to focus digital cameras correctly checklists to help design digital workflows practical tips on preparation prepare for shooting a digital motion picture like a professional camera set up and operation color management digital intermediates 3d stereo cinematography future trends and much more if you aspire to be a successful cinematographer in this new digital age or if you already are a working cinematographer in need of a resource to help you stay on top of your game this is a must read book

Projection Displays *2021-11-19*

the projection designer s toolkit is an insider s guide to the world of professional projection design serving as a reference for the planning and execution of each step in the projection design process the text addresses the design process within the context of a professional projection designer s workflow focusing on specific tools of the trade best practices for communicating your design to collaborators tips and tricks determining budget working with assistants and more featuring interviews with some of the top names in the industry the book offers an unprecedented insight into the professional projection designer s process across a wide range of fields from broadway and regional theatre to corporate design and music touring the book also includes in depth discussion on production process system design cue and content planning content design digital media fundamentals media servers video equipment and projection surfaces additionally it features hundreds of full color photos and examples of designer artifacts such as draftings mock ups paperwork cue sheets and renderings filled with practical advice that will guide readers from landing their first job all the way through opening night and beyond the projection designer s toolkit is the perfect resource for emerging projection designers and students in digital media design and projection design courses

Digital Cinematography *2014-03-21*

thin films atomic layer deposition and 3d printing explains the concept of thin films atomic layers deposition and the fourth industrial revolution 4ir with an aim to illustrate existing resources and give a broader perspective of the involved processes as well as provide a selection of different types of 3d printing materials used for 3d printing emerging trends and applications and current top performing 3d printers using different technologies it covers the concept of the 4ir and its role in current and future human endeavors for both experts nonexperts the book includes figures diagrams and their applications in real life situations features provides comprehensive material on conventional and emerging thin film atomic layer and additive technologies discusses the concept of industry 4 0 in thin films technology details the preparation and properties of hybrid and scalable ultra thin materials for advanced applications explores detailed bibliometric analyses on pertinent applications interconnects atomic layer deposition and additive manufacturing this book is aimed at researchers and graduate students in mechanical materials and metallurgical engineering

Digital Cinematography *2021-12-22*

novel biomaterials for bone regeneration provides a comprehensive review of currently available biomaterials and how they can be applied in bone regeneration in recent decades there has been a shift from the idea of using biomaterials as passive substitutes for damaged bones towards the concept of biomaterials as aids for the regeneration of a host s own bone tissue this has generated an important field of research and a range of technological developments part one of this book discusses a wide range of materials including calcium phosphate cements hydrogels biopolymers synthetic polymers and shape memory polymers part two then turns to the processing and surface modification of biomaterials as well as how biomaterials can be evaluated both for their mechanical properties and for immunocompatibility with the

host finally part three covers a variety of cellular approaches and production and delivery of biomaterials for bone regeneration chapters also consider the potential of electromagnetic and ultrasonic stimulation of biomaterials to aid in the regenerative process novel biomaterials for bone regeneration represents an important resource for academics clinicians and industry professionals working in the area of biomedical materials providing them with both an overview of the current state of the art and an indication of potential future developments provides comprehensive coverage of novel materials techniques and applications of biomaterials for bone regeneration provides vital information on the various types of materials used in bone regeneration discusses processing modification and evaluation techniques of biomaterials and looks at cellular approaches and stimulation of biomaterials for bone regeneration

The Projection Designer's Toolkit *2023-11-29*

closed circuit television cctv surveillance remains a growing industry in response to increased security threats and whilst new developments have brought clearer images digital recording and high speed data transmission effective security systems still rely upon proper specification and installation by engineers with an in depth knowledge of cctv principles and technology the third edition of closed circuit television provides a thorough technical guide for all those involved in the design specification installation and maintenance of cctv systems fully dual standard for pal and ntsc systems the book covers the essential equipment and topics of relevance to practitioners managers and students on vocational and industry training courses extended coverage of flat screen devices digital recording and a new chapter on networking principles bring this popular guide up to date with the latest developments in the field joe cieszynski is a well known technical writer with a wealth of experience in the security industry after many years of college lecturing on tv video and security topics he currently acts as city guilds chief examiner for security systems and provides independent cctv system consultancy demystifies cctv technology for installers and managers concise accessible text ideal for hard pressed practitioners and students fully dual standard coverage for pal and ntsc based systems

Thin Films, Atomic Layer Deposition, and 3D Printing *2014-06-09*

this book comprehensively introduces non destructive methods for food quality i e external internal sensory components and microbiological indicators detection through optics acoustics chemistry imaging and bionic sensing it highlights in situ detection of food quality and safety including principles signal processing and analysis of data non destructive detection system and application in the food industry for each method first this book introduces the principles and characteristics of various food non destructive methods as non destructive measurements always involve obtaining big data for each testing this book also describes in detail the signal and big data processing for each non destructive method the chapters also introduce the rapid portable detection equipment for food and agricultural products developed in recent years as well as the intelligent monitoring equipment in the process of food processing relevant application cases are provided to help readers better understanding how to apply non destructive technology for food quality detection in the noninvasive measurement of food quality this book has a systematic introduction of the detection principle data processing and rapid detection system in field detection case studies this book is novel and practical and can be used as a professional textbook for undergraduates majoring in food science and engineering it can also be used as a reference book for scientific research and technical personnel engaged in the field of food quality and safety detection

Biomaterials for Bone Regeneration *2006-12-28*

this volume contains revised and extended research articles written by prominent researchers participating in the icf4c 2011 conference 2011 international conference on future communication computing control and management icf4c 2011 has been held on december 16 17 2011 phuket thailand topics covered include intelligent computing network management wireless networks telecommunication power engineering control engineering signal and image processing machine learning control systems and applications the book will offer the states of arts of tremendous advances in computing communication control and management and also serve as an excellent reference work for researchers and graduate students working on computing communication control and management research

Closed Circuit Television 2021-08-27

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Advanced Nondestructive Detection Technologies in Food *2012-02-01*

additive manufacturing explains the background theory working principles technical specifications and latest developments in a wide range of additive manufacturing techniques topics addressed include treatments of manufactured parts surface characterization and the effects of surface treatments on mechanical behavior many different perspectives are covered including design aspects technologies materials and sustainability experts in both academia and industry contribute to this comprehensive guide combining theoretical developments with practical improvements from r d this unique guide allows readers to compare the characteristics of different processes understand how they work and provide parameters for their effective implementation this book is part of a four volume set entitled handbooks in advanced manufacturing other titles in the set include advanced machining and finishing advanced welding and deformation and sustainable manufacturing processes provides theory operational parameters and latest developments in 20 different additive manufacturing processes includes contributions from experts in industry and academia with a wide range of disciplinary backgrounds providing a comprehensive survey of this diverse and influential subject includes case studies of innovative additive manufacturing practices from industry

Future Communication, Computing, Control and Management *2007-11-20*

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PC Mag *2021-05-21*

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Additive Manufacturing 2004

automated lighting the art and science of moving light in theatre live performance and entertainment continues to be the most trusted text for working and aspiring lighting professionals now in its second edition it has been fully updated to include new advances in lamp sources such as leds and plasma lamps automated and programmable displays updates for managing color and new methods for using electronics its clear easy to understand language also includes enough detailed information for the most experienced technician and engineer

Market Opportunity for Glass Lenses in Micro-display Projection Televisions *1998-08*

additive manufacturing am processes are gaining more and more attention from many industrial fields mainly because they are revolutionizing the components designs and production lines the complete industrialization of these processes has to be supported by the full understanding of correlation between am building conditions and the final materials properties another critical aspect is that nowadays only a reduced number of materials processable by am are available on the market it is therefore fundamental to widen the materials portfolio and to study and develop new materials that can take advantage of these unique building processes

3D□□□□□□□ *2013-05-20*

the first of its kind this book traces the evolution of motion picture technology in its entirety beginning with huygens magic lantern and ending in the current electronic era it explains cinema s scientific foundations and the development of parallel enabling technologies alongside the lives of the innovators product development issues business and marketplace factors the interaction of aesthetic and technological demands and the patent system all play key roles in the tale the topics are covered sequentially with detailed discussion of the transition from the magic lantern to edison s invention of the 35mm camera the development of the celluloid cinema and the transition from celluloid to digital unique and essential reading from a lifetime innovator in the field of cinema technology this engaging and well illustrated book will appeal to anyone interested in the history and science of cinema from movie buffs to academics and members of the motion picture industry

PC Mag 2021-03-19

proceedings of spie present the original research papers presented at spie conferences and other high quality conferences in the broad ranging fields of optics and photonics these books provide prompt access to the latest innovations in research and technology in their respective fields proceedings of spie are among the most cited references in patent literature

Automated Lighting *2021-04-07*

this book provides a full and comprehensive coverage of video and television technology including the latest developments in display equipment hdtv and dvd starting with tv fundamentals the bulk of the book covers the many new technologies that are bringing growth to the tv and video market such as plasma and lcd dlp digital light processing

dvd blu ray technology digital television high definition television hdtv and video projection systems for each technology a full explanation is provided of its operation and practical application supported by over 300 diagrams including schematic diagrams of commercially available consumer equipment where relevant testing and fault finding procedures are outlined together with typical fault symptoms supported by photographs the new edition has a number of useful appendices on microcomputer microcontroller systems test instruments serial buses i2c and rs 232 teletext and error correction techniques the book is intended for students of electronics and practicing engineers in particular it will useful for students on vocational courses and service engineers as well as enthusiasts the definitive guide to the new technologies transforming the world of television hdtv digital tv dvd recorders hard disk recorders wide screen crt flat screen technologies and others a practical approach including troubleshooting and servicing information covers uk european and north american systems

Materials Development by Additive Manufacturing Techniques *2005*

this thesis describes the physics and computational aspects of an end to end simulator to predict the performance of a space based far infrared interferometer the present thesis also includes the science capabilities and instrumental state of the art the latter is the ambitious next step which the far infrared astrophysical community needs to take to improve in anyway on the results of the most recent and current space telescopes in this wavelength region this thesis outlines the requirements involved in such a mission and describes the most promising technique to capture most of the astrophysical information by combining spectroscopy to spatial interferometer the simulation of such a system is extremely complex requiring multiple fourier transforms each of which is subject to instrument non idealities and appropriate optimization techniques as a conclusion the thesis provides an example of the basic performance achievable with such an instrument when targeting a young star formation region

The Cinema in Flux *2007-09-14*

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Cockpit and Future Displays for Defense and Security *2006*

one of the first of its kind this book examines the digitalization of chinese businesses both theoretically and practically taking a fresh and unique approach the authors seek to adopt individual theories for each empirical case explored and investigate the dramatic digital transformation that chinese firms have undergone in recent years with a particular focus on social networks the authors observe and analyze the way that digitized applications can interlink with financial systems developing new capabilities that help to yield competitive advantage covering both small to medium sized enterprises smes and globally orientated multinational enterprises mnes this book is a valuable resource for those researching asian business or international business more generally as well as innovation and technology management

Newnes Guide to Television and Video Technology *2016-05-21*

Sound & Vision 1999-06-22

A Far-Infrared Spectro-Spatial Space Interferometer *2018-07-20*

PC Mag

The Digitization of Business in China

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