

Photo Generation

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Hands-On Image Generation with TensorFlow - Soon Yau Cheong 2020-12-24
Implement various state-of-the-art architectures, such as GANs and autoencoders, for image generation using TensorFlow 2.x from scratch
Key Features
Understand the different architectures for image generation, including autoencoders and GANs
Build models that can

edit an image of your face, turn photos into paintings, and generate photorealistic images
Discover how you can build deep neural networks with advanced TensorFlow 2.x features
Book Description
The emerging field of Generative Adversarial Networks (GANs) has made it possible to generate indistinguishable images from existing datasets. With this hands-

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on book, you'll not only develop image generation skills but also gain a solid understanding of the underlying principles. Starting with an introduction to the fundamentals of image generation using TensorFlow, this book covers Variational Autoencoders (VAEs) and GANs. You'll discover how to build models for different applications as you get to grips with performing face swaps using deepfakes, neural style transfer, image-to-image translation, turning simple images into photorealistic images, and much more. You'll also understand how and why to construct state-of-the-art deep neural networks using advanced techniques such as spectral normalization and self-attention layer before working with advanced models for face generation and editing. You'll also be introduced to photo restoration, text-to-image synthesis, video retargeting, and neural rendering. Throughout the book, you'll learn to implement models from scratch in TensorFlow 2.x, including PixelCNN,

VAE, DCGAN, WGAN, pix2pix, CycleGAN, StyleGAN, GauGAN, and BigGAN. By the end of this book, you'll be well versed in TensorFlow and be able to implement image generative technologies confidently. What you will learnTrain on face datasets and use them to explore latent spaces for editing new facesGet to grips with swapping faces with deepfakesPerform style transfer to convert a photo into a paintingBuild and train pix2pix, CycleGAN, and BicycleGAN for image-to-image translationUse iGAN to understand manifold interpolation and GauGAN to turn simple images into photorealistic imagesBecome well versed in attention generative models such as SAGAN and BigGANGenerate high-resolution photos with Progressive GAN and StyleGANWho this book is forThe Hands-On Image Generation with TensorFlow book is for deep learning engineers, practitioners, and researchers who have basic knowledge of convolutional neural networks and want to learn various image generation

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techniques using TensorFlow 2.x. You'll also find this book useful if you are an image processing professional or computer vision engineer looking to explore state-of-the-art architectures to improve and enhance images and videos.

Knowledge of Python and TensorFlow will help you to get the best out of this book.

Photocatalytic Materials & Surfaces for Environmental Cleanup-II - Rajesh J. Tayade
2012-12-27

Volume is indexed by Thomson Reuters BCI (WoS). This Special Topic Volume is a result of the collaboration of fifty six academics from the international scientific community; each an expert in his respective field of research. The work presents a thorough coverage of various photocatalytic materials and surfaces, together with their applications in environmental clean-up and hydrogen production. It offers a comprehensive picture of processes, related to photocatalysis, that have posed scientific and technological challenges in this area. One finds

here the latest in-depth coverage of nanomaterials, nano-composites, and the chemical, physical and engineering aspects of photocatalytic materials application in environmental and energy applications.

Fundamentals of Terahertz Devices and Applications - Dimitris Pavlidis 2021-07-19

An authoritative and comprehensive guide to the devices and applications of Terahertz technology Terahertz (THz) technology relates to applications that span in frequency from a few hundred GHz to more than 1000 GHz.

Fundamentals of Terahertz Devices and Applications offers a comprehensive review of the devices and applications of Terahertz technology. With contributions from a range of experts on the topic, this book contains in a single volume an inclusive review of THz devices for signal generation, detection and treatment.

Fundamentals of Terahertz Devices and Applications offers an exploration and addresses key categories and aspects of Terahertz

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Technology such as: sources, detectors, transmission, electronic considerations and applications, optical (photonic) considerations and applications. Worked examples—based on the contributors' extensive experience—highlight the chapter material presented. The text is designed for use by novices and professionals who want a better understanding of device operation and use, and is suitable for instructional purposes This important book: Offers the most relevant up-to-date research information and insight into the future developments in the technology Addresses a wide-range of categories and aspects of Terahertz technology Includes material to support courses on Terahertz Technology and more Contains illustrative worked examples Written for researchers, students, and professional engineers, Fundamentals of Terahertz Devices and Applications offers an in-depth exploration of the topic that is designed for both novices and professionals and can be

adopted for instructional purposes.

Optoelectronic Circuits in Nanometer CMOS

Technology - Mohamed Atef 2016-03-04

This book describes the newest implementations of integrated photodiodes fabricated in nanometer standard CMOS technologies. It also includes the required fundamentals, the state-of-the-art, and the design of high-performance laser drivers, transimpedance amplifiers, equalizers, and limiting amplifiers fabricated in nanometer CMOS technologies. This book shows the newest results for the performance of integrated optical receivers, laser drivers, modulator drivers and optical sensors in nanometer standard CMOS technologies. Nanometer CMOS technologies rapidly advanced, enabling the implementation of integrated optical receivers for high data rates of several Giga-bits per second and of high-pixel count optical imagers and sensors. In particular, low cost silicon CMOS optoelectronic integrated circuits became very attractive because they can

be extensively applied to short-distance optical communications, such as local area network, chip-to-chip and board-to-board interconnects as well as to imaging and medical sensors.

Bionanotechnology in Cancer - D. Sakthi Kumar
2022-10-27

The cancer research world is looking forward to bionanotechnology to find the best solutions for a complete cure from cancer, which is not possible with the current established treatment methods. The past decade of research on nano imaging and drug delivery in cancer has witnessed many interesting papers and reviews, but there has not been a concise resource that discusses all fields related to nano cancer research in diagnosis and drug delivery. This book fills this gap and presents the latest bionano research in cancer, focusing on nanodiagnosics and nanotherapy. The book is organized into two sections. The section on nanodiagnosics focuses on topics such as diagnostic methods in cancer-related therapy

and use of radiolabeled nanoparticles, magnetic nanoparticles, acoustically reflective nanoparticles, X-ray computed tomography, and optical nanoprobe for diagnosis. The section on nanotherapy focuses on nanomaterials in chemotherapy, magnetic nanoparticles for hyperthermia against cancer, phototherapy, nanotechnology-mediated radiation therapy, nanoparticle-mediated small-RNA deliveries for molecular therapies, and theranostics. The book will serve as the gateway to enter the beautiful and elegant field of bionanoscience, which is considered the last hope for the fight against cancer and will be a highly useful resource for the students, researchers, teachers, and curious readers working in this field or related fields.

I and Eye - Peter Simon 2001

Chronicles the life of photojournalist Peter Simon and shares photographs of the causes, people, and events that defined the baby boomer generation, from his college years in Boston to his visit to Woodstock '99.

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Upfront foto reporters - 2016-02-23

Documenting war zones, this book features the work of 23 photo journalists from Latin America and Spain.

How to Archive Family Photos - Denise May Levenick 2015-04-24

Organize and enjoy your family's memories! You've captured countless cherished family photos of babies' first steps, graduations, weddings, holidays, vacations, and priceless everyday moments on your smartphone or digital camera. Perhaps you've inherited a collection of heirloom family photographs, too. But now what? How to Archive Family Photos is a practical how-to guide for organizing your growing digital photo collection, digitizing and preserving heirloom family photos, and sharing your treasured photos. In this book, you'll find:

- Simple strategies to get your photos out of a smartphone or camera and into a safe storage space
- Easy methods to organize and back up your digital photos, including file-naming and

- tagging hints
- Achievable steps to digitize and preserve heirloom family photos
- Step-by-step workflows illustrating common photo organizing and digitizing scenarios
- Checklists for setting up your own photo organization system
- 25 photo projects to preserve, share, and enjoy your family photos

Whether you have boxes full of tintypes and black-and-white photographs, an ever-growing collection of digital photos, or a combination of the two, this book will help you rescue your images from the depths of hard drives and memory cards (or from the backs of closets) so that you can organize and preserve your family photo collection for future generations.

Virtual Storytelling. Using Virtual Reality Technologies for Storytelling - France International Conference on Virtual Storytelling 2001 Avignon 2001-09-17

This book constitutes the refereed proceedings of the first International Conference on Virtual Storytelling, ICVS 2001, held in Avignon,

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France, in September 2001. The 20 revised full papers presented together with four invited papers were carefully reviewed and selected for inclusion in the proceedings. The book offers topical sections on new techniques, authoring tools, a new form of narration, virtual characters, and applications.

On Solar Hydrogen and Nanotechnology - Lionel Vayssieres 2010-01-26

More energy from the sun strikes Earth in an hour than is consumed by humans in an entire year. Efficiently harnessing solar power for sustainable generation of hydrogen requires low-cost, purpose-built, functional materials combined with inexpensive large-scale manufacturing methods. These issues are comprehensively addressed in On Solar Hydrogen & Nanotechnology - an authoritative, interdisciplinary source of fundamental and applied knowledge in all areas related to solar hydrogen. Written by leading experts, the book emphasizes state-of-the-art materials and

characterization techniques as well as the impact of nanotechnology on this cutting edge field. Addresses the current status and prospects of solar hydrogen, including major achievements, performance benchmarks, technological limitations, and crucial remaining challenges Covers the latest advances in fundamental understanding and development in photocatalytic reactions, semiconductor nanostructures and heterostructures, quantum confinement effects, device fabrication, modeling, simulation, and characterization techniques as they pertain to solar generation of hydrogen Assesses and establishes the present and future role of solar hydrogen in the hydrogen economy Contains numerous graphics to illustrate concepts, techniques, and research results On Solar Hydrogen & Nanotechnology is an essential reference for materials scientists, physical and inorganic chemists, electrochemists, physicists, and engineers carrying out research on solar energy,

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photocatalysis, or semiconducting nanomaterials, both in academia and industry. It is also an invaluable resource for graduate students and postdoctoral researchers as well as business professionals and consultants with an interest in renewable energy.

How Arts Education Makes a Difference -

Josephine Fleming 2015-12-22

This book presents ground-breaking research on the ways the Arts fosters motivation and engagement in both academic and non-academic domains. It reports on mixed method, international research that investigated how the Arts make a difference in the lives of young people. Drawing on the findings of a longitudinal quantitative study led by the internationally renowned educational psychologist Andrew Martin, the book examines the impact of arts involvement in the academic outcomes of 643 students and reports on the in-depth qualitative research that investigates what constitutes best-practice in learning and teaching in the Arts.

The book also examines drama, dance, music, visual arts and film classrooms to construct an understanding of quality pedagogy in these classrooms. With its evidence-based but highly accessible approach, this book will be directly and immediately relevant to those interested in the Arts as a force for change in schooling. How Arts Education Makes a Difference discusses: The Arts Education, Motivation, Engagement and Achievement Research Visual Arts, Drama and Music in Classrooms Technology-mediated Arts Engagement International Perspectives on Arts and Cultural Policies in Education This book is a timely collation of research and experiential findings which support the need to promote arts education in schools worldwide. It will be particularly useful for educationists, researchers in education and arts advocates.

Nanostructured Solar Cells -

Guanying Chen 2018-07-04

This book is a printed edition of the Special Issue "Nanostructured Solar Cells" that was

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published in Nanomaterials

Self-Organized Organic Semiconductors -

Quan Li 2011-03-03

This book focuses on the exciting topic on self-organized organic semiconductors - from materials to device applications. It offers up-to-date and accessible coverage of self-organized semiconductors for organic chemistry, polymer science, liquid crystals, materials science, material engineering, electrical engineering, chemical engineering, optics, optic-electronics, nanotechnology and semiconductors. Chapters cover chemistry, physics, processing, and characterization. The applications include photovoltaics, light-emitting diodes (LEDs), and transistors.

Spatial Information Theory - Sara Irina

Fabrikant 2015-09-29

This book constitutes the proceedings of the 12th International Conference on Spatial Information Theory, COSIT 2015, held in Santa Fee, NM, USA, in October 2015. The 22 papers

presented in this book were carefully reviewed and selected from 52 full paper submissions. The following topics are addressed: formalizing and modeling space-time, qualitative spatio-temporal reasoning and representation, language and space, signs, images, maps, and other representations of space, navigations by humans and machines.

Computer Vision - ACCV 2018 - C.V. Jawahar

2019-05-25

The six volume set LNCS 11361-11366 constitutes the proceedings of the 14th Asian Conference on Computer Vision, ACCV 2018, held in Perth, Australia, in December 2018. The total of 274 contributions was carefully reviewed and selected from 979 submissions during two rounds of reviewing and improvement. The papers focus on motion and tracking, segmentation and grouping, image-based modeling, deep learning, object recognition object recognition, object detection and categorization, vision and language, video analysis and event

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recognition, face and gesture analysis, statistical methods and learning, performance evaluation, medical image analysis, document analysis, optimization methods, RGBD and depth camera processing, robotic vision, applications of computer vision.

Amorphous Silicon Technology - 1994

Mobile Cloud Visual Media Computing - Gang Hua 2015-11-23

This book explores the internet and mobile ecosystems which are powered by cloud computing - an essential, if not indispensable, part of our everyday lives. Billions of users world-wide use this technology for information sharing, communication and social networking and a high proportion of activity is driven by massive media content such as images, videos and other emerging 3D visual media. However, managing, searching and visualizing this gigantic amount of data to facilitate communication is difficult which has led to an

influx of innovation and research in these areas. The research is from academics from all around the world, focusing on the intersection of mobile, cloud, visual and multimedia computing and is split into five clear parts. Topics covered in the book include mobile augmented reality, computational photography, mobile visual recognition and search, and human-computer interaction (HCI). The findings discussed is meant to spur on further creative development in both academia and industry within this area. Mobile Cloud Visual Media Computing would of great interest to researchers and academics wishing to see how the state-of-the-art in media computing research is applied to innovative applications, whilst engineers and software designers from industry will gain an insight into the key set of technologies which support mobile and cloud media computing.

On the Construction of Artificial Brains - Ulrich Ramacher 2010-04-03

This book presents a first generation of artificial

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brains, using vision as sample application. An object recognition system is built, using neurons and synapses as exclusive building elements. The system contains a feature pyramid with 8 orientations and 5 resolution levels for 1000 objects and networks for binding of features into objects. This vision system can recognize objects robustly in the presence of changes in illumination, deformation, distance and pose (as long as object components remain visible). The neuro-synaptic network owes its functional power to the introduction of rapidly modifiable dynamic synapses. These give a network greater pattern recognition capabilities than are achievable with fixed connections. The spatio-temporal correlation structure of patterns is captured by a single synaptic differential equation in a universal way. The correlation can appear as synchronous neural firing, which signals the presence of a feature in a robust way, or binds features into objects. Although in this book we can present only a first generation

artificial brain and believe many more generations will have to follow to reach the full power of the human brain, we nevertheless see a new era of computation on the horizon. There were times when computers, with their precision, reliability and blinding speed, were considered to be as superior to the wet matter of our brain as a jet plane is to a sparrow. These times seem to be over, given the fact that digital systems inspired by formal logic and controlled algorithmically - today's computers - are hitting a complexity crisis. A paradigm change is in the air: from the externally organised to the self-organised computer, of which the results described in this book may give an inkling. *Computer-aided Design of Optoelectronic Integrated Circuits and Systems* - James J. Morikuni 1997

Prologue - 2002

The Focal Encyclopedia of Photography -

Michael R. Peres 2013-05-29

*Searchable CD ROM containing the entire book (including images) *Over 450 color images, plus never before published images provided by the George Eastman House collection, as well as images from Ansel Adams, Howard Schatz, and Jerry Uelsmann to name just a few The role and value of the picture cannot be matched for accuracy or impact. This comprehensive treatise, featuring the history and historical processes of photography, contemporary applications, and the new and evolving digital technologies, will provide the most accurate technical synopsis of the current, as well as early worlds of photography ever compiled. This Encyclopedia, produced by a team of world renown practicing experts, shares in highly detailed descriptions, the core concepts and facts relative to anything photographic. This Fourth edition of the Focal Encyclopedia serves as the definitive reference for students and practitioners of photography worldwide, expanding on the award winning 3rd

edition. In addition to Michael Peres (Editor in Chief), the editors are: Franziska Frey (Digital Photography), J. Tomas Lopez (Contemporary Issues), David Malin (Photography in Science), Mark Osterman (Process Historian), Grant Romer (History and the Evolution of Photography), Nancy M. Stuart (Major Themes and Photographers of the 20th Century), and Scott Williams (Photographic Materials and Process Essentials)

Radiation Acoustics - Leonid M. Lyamshev
2004-04-14

Radiation acoustics is a developing field lying at the intersection of acoustics, high-energy physics, nuclear physics, and condensed matter physics. Radiation Acoustics is among the first books to address this promising field of study, and the first to collect all of the most significant results achieved since research in this area began in earnest in the 1970s. The book begins by reviewing the data on elementary particles, absorption of penetrating radiation in a

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substance, and the mechanisms of acoustic radiation excitation. The next seven chapters present a theoretical treatment of thermoradiation sound generation in condensed media under the action of modulated penetrating radiation and radiation pulses. The author explores particular features of the acoustic fields of moving thermoradiation sound sources, sound excitation by single high-energy particles, and the efficiency and optimal conditions of thermoradiation sound generation. Experimental results follow the theoretical discussions, and these clearly demonstrate the validity of the thermoradiation theory. The book concludes with discussions on applications, including the large-scale DUMAND and GENIUS projects now on the horizon. Radiation acoustics holds enormous potential for applications in areas such as microelectronics, geophysics, and astrophysics. This book offers a unique opportunity to benefit from the approach and extensive experience of author Leonid N.

Lyamshev, who in this, his last book, shows how he left an indelible mark on the world of acoustics.

[Physics of Thin-Film Photovoltaics](#) - Victor G. Karpov 2021-11-09

PHYSICS OF THIN-FILM PHOTOVOLTAICS
Tackling one of the hottest topics in renewables, thin-film photovoltaics, the authors present the latest updates, technologies, and applications, offering the most up-to-date and thorough coverage available to the engineer, scientist, or student. It appears rather paradoxical that thin-film photovoltaics (PVs) are made of materials that seem unacceptable from the classical PV perspective, and yet they often outperform classical PV. This exciting new volume solves that paradox by switching to a new physics paradigm. Many concepts here fall beyond the classical PV scope. The differences lie in device thinness (microns instead of millimeters) and morphology (non-crystalline instead of crystalline). In such structures, the charge

carriers can reach electrodes without recombination. On the other hand, thin disordered structures render a possibility of detrimental lateral nonuniformities (“recombination highways”), and their energy spectra give rise to new recombination modes. The mechanisms of thermal exchange and device degradation are correspondingly unique. The overall objective of this book is to give a self-contained in-depth discussion of the physics of thin-film systems in a manner accessible to both researchers and students. It covers most aspects of the physics of thin-film PV, including device operations, material structure and parameters, thin-film junction formation, analytical and numerical modeling, concepts of large area effects and lateral non-uniformities, physics of shunting (both shunt growth and effects), and device degradation. Also, it reviews a variety of physical diagnostic techniques proven with thin-film PV. Whether for the veteran engineer or the student, this is a must-have for any library. This

outstanding new volume: Covers not only the state-of-the-art of thin-film photovoltaics, but also the basics, making this volume useful not just to the veteran engineer, but the new-hire or student as well Offers a comprehensive coverage of thin-film photovoltaics, including operations, modeling, non-uniformities, piezo-effects, and degradation Includes novel concepts and applications never presented in book format before Is an essential reference, not just for the engineer, scientist, and student, but the unassuming level of presentation also makes it accessible to readers with a limited physics background Is filled with workable examples and designs that are helpful for practical applications Is useful as a textbook for researchers, students, and faculty for understanding new ideas in this rapidly emerging field Audience: Industrial professionals in photovoltaics, such as engineers, managers, research and development staff, technicians, government and private

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research labs; also academic and research universities, such as physics, chemistry, and electrical engineering departments, and graduate and undergraduate students studying electronic devices, semiconductors, and energy disciplines

Stephen Capwell: Descendants from the 6th to the 11th generation - Lois J. Capwell 1994

Popular Photography - 1999-03

Computer Vision - ECCV 2020 Workshops - Adrien Bartoli 2021-01-29

The 6-volume set, comprising the LNCS books 12535 until 12540, constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision, ECCV 2020. The conference was planned to take place in Glasgow, UK, during August 23-28, 2020, but changed to a virtual format due to the COVID-19 pandemic. The 249 full papers, 18 short papers, and 21 further contributions

included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions. The papers deal with diverse computer vision topics. Part III includes the Advances in Image Manipulation Workshop and Challenges.

Popular Photography - 1996-06

Photo-Thermal Spectroscopy with Plasmonic and Rare-Earth Doped (Nano)Materials - Ali Rafiei Miandashti 2018-12-30

This book highlights the theoretical foundations of and experimental techniques in photothermal heating and applications involving nanoscale heat generation using gold nanostructures embedded in various media. The experimental techniques presented involve a combination of nanothermometers doped with rare-earth atoms, plasmonic heaters and near-field microscopy. The theoretical foundations are based on the Maxwell's and heat diffusion equations. In particular, the working principle and application

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of AlGaN:Er³⁺ film, Er₂O₃ nanoparticles and β-NaYF₄:Yb³⁺,Er³⁺ nanocrystals for nanothermometry based on Er³⁺ emission are discussed. The relationship between superheated liquid and bubble formation for optically excited nanostructures and the effects of the surrounding medium and solution properties on light absorption and scattering are presented. The application of Er₂O₃ and β-NaYF₄:Yb³⁺,Er³⁺ nanocrystals to study the temperature of optically heated gold nanoparticles is also presented. In closing, the book presents a new thermal imaging technique combining near-field microscopy and Er³⁺ photoluminescence spectroscopy to monitor the photothermal heating and steady-state sub-diffraction local temperature of optically excited gold nanostructures.

Photo- and Electro-Catalytic Processes -

Jianmin Ma 2022-01-25

Explore green catalytic reactions with this reference from a renowned leader in the field

Green reactions—like photo-, photoelectro-, and electro-catalytic reactions—offer viable technologies to solve difficult problems without significant damage to the environment. In particular, some gas-involved reactions are especially useful in the creation of liquid fuels and cost-effective products. In *Photo- and Electro-Catalytic Processes: Water Splitting, N₂ Fixing, CO₂ Reduction*, award-winning researcher Jianmin Ma delivers a comprehensive overview of photo-, electro-, and photoelectron-catalysts in a variety of processes, including O₂ reduction, CO₂ reduction, N₂ reduction, H₂ production, water oxidation, oxygen evolution, and hydrogen evolution. The book offers detailed information on the underlying mechanisms, costs, and synthetic methods of catalysts. Filled with authoritative and critical information on green catalytic processes that promise to answer many of our most pressing energy and environmental questions, this book also includes: Thorough introductions to electrocatalytic

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oxygen reduction and evolution reactions, as well as electrocatalytic hydrogen evolution reactions Comprehensive explorations of electrocatalytic water splitting, CO₂ reduction, and N₂ reduction Practical discussions of photoelectrocatalytic H₂ production, water splitting, and CO₂ reduction In-depth examinations of photoelectrochemical oxygen evolution and nitrogen reduction Perfect for catalytic chemists and photochemists, Photo- and Electro-Catalytic Processes: Water Splitting, N₂ Fixing, CO₂ Reduction also belongs in the libraries of materials scientists and inorganic chemists seeking a one-stop resource on the novel aspects of photo-, electro-, and photoelectro-catalytic reactions.

Thermotropic Liquid Crystals - Ayyalusamy Ramamoorthy 2007-05-06

This book covers developments in the field of thermotropic liquid crystals and their functional importance. It also presents advances related to different sub-areas pertinent to this

interdisciplinary area of research. This text brings together research from synthetic scientists and spectroscopists and attempts to bridge the gaps between these areas. New physical techniques that are powerful in characterizing these materials are discussed. The Hair Fibre: Proteins, Structure and Development - Jeffrey E. Plowman 2018-05-24 Hair is a sophisticated bio-based material, whether it is on a human head or part of a mammalian coat. In particular, the role of the proteins in the follicle, integral to hair development, are not well understood. This new book seeks to integrate the latest research in proteomic and morphological studies into a coherent description of fibre development from the follicle to its final mature, keratinized form. To achieve this the book has been divided into three sections. The first describes the keratins, their associated proteins and how they assemble into intermediate filaments in the fibre. The second covers the latest information on the

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morphological changes that occur from the base of the follicle, through the keratinization process to the mature fibre and the role that proteins play in this. The final section delves into fundamental fibre properties such as crosslinking, thermal and oxidative modifications and how these affect the mature fibre. The editors of this book are internationally recognised for their work in the area of mammalian hair, Jeffrey Plowman for his knowledge of the proteomics of the fibre, Santanu Deb-Choudhury for his work in the area of crosslinking in the fibre and Duane Harland for his understanding of the morphological development of the fibre. Together they have collected material from other international experts: Leopold Eckhart and Florian Ehrlich for their knowledge of the evolution of keratins; Dong Dong Wu and David Irwin for their studies on keratin associated protein evolution; David Parry and Bruce Fraser for their work on keratin and keratin associated protein structure and

assembly; John McKinnon for his studies on macrofibril formation; Crisan Popescu for the thermodynamics of keratins; and Jolon Dyer for his oxidative modification studies of keratins. This book provides a comprehensive introduction, and useful reference guide to hair biology and will be of interest to both scientists and technologists.

Photo Generation - Michele Neri 2016-07-25
Proprio quando - tra selfie, social e smartphone - le immagini sono diventate il vero alfabeto del nostro tempo, la fotografia professionale sembra aver perduto il suo prestigio e si è eclissata. Ma è proprio la generazione in cui tutti sono creatori di immagini ad avere bisogno di riscoprire l'eredità morale e rivoluzionaria dei grandi fotoreporter. Solo così riuscirà a raccontare, davvero, se stessa. E fare storia. "C'è una possibilità di contagio virtuoso tra Sebastião Salgado, capace d'interpellare direttamente il pianeta, e Kim Kardashian che si ritrae allo specchio con il proprio smartphone?"

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Microwave Photonics - Chi H. Lee 2017-12-19

Microwave photonics continues to see rapid growth. The integration of optical fiber and wireless networks has become a commercial reality and is becoming increasingly pervasive. Such hybrid technology will lead to many innovative applications, including backhaul solutions for mobile networks and ultrabroadband wireless networks that can provide users with very high bandwidth services. *Microwave Photonics, Second Edition* systematically introduces important technologies and applications in this emerging field. It also reviews recent advances in micro- and millimeter-wavelength and terahertz-frequency systems. The book features contributions by leading international researchers, many of whom are pioneers in the field. They examine wave generation, measurement, detection, control, and propagation in detail, as well as the devices and components that enable ultrawide-band and ultrafast transmission, switching, and signal

processing. These devices and components include optical-controlled microwave devices, optical transmitters, receivers, switching devices, detectors, and modulators. The book explores the theory, techniques, and technologies that are fueling applications such as radio-over-fiber, injection-locked semiconductor lasers, and terahertz photonics. Throughout, the contributors share insights on overcoming current limitations and on potential developments. **What's New in This Edition** Two new chapters, on fiber Bragg gratings for microwave photonics applications and ultrawide-band sub-THz photonic wireless links Updates throughout, reflecting advances in the field New illustrations in each chapter Fully illustrated with more than 300 figures and tables, this book offers a detailed, wide-ranging overview of the current state and future directions of this burgeoning technology.

[OJI International Seminar on Organic Semiconductors](#) - H. Inokuchi 1989

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Wedding Photography - Steve Sint 2005

In this information-packed guide, Steve Sing gives photographers the best of his...experience in shooting weddings and events.

Stimuli-responsive Materials - Marek W. Urban 2016

Covers the scientific principles, developments and recent technological advances of stimuli responsive materials for those new to and active in the field.

Monthly Catalog of United States

Government Publications - United States. Superintendent of Documents 1985

February issue includes Appendix entitled Directory of United States Government periodicals and subscription publications; September issue includes List of depository libraries; June and December issues include semiannual index

Performing Image - Isobel Harbison 2019-04-09

An examination of how artists have combined performance and moving image for decades,

anticipating our changing relation to images in the internet era. In *Performing Image*, Isobel Harbison examines how artists have combined performance and moving image in their work since the 1960s, and how this work anticipates our changing relations to images since the advent of smart phones and the spread of online prosumerism. Over this period, artists have used a variety of DIY modes of self-imaging and circulation—from home video to social media—suggesting how and why Western subjects might seek alternative platforms for self-expression and self-representation. In the course of her argument, Harbison offers close analyses of works by such artists as Robert Rauschenberg, Yvonne Rainer, Mark Leckey, Wu Tsang, and Martine Syms. Harbison argues that while we produce images, images also produce us—those that we take and share, those that we see and assimilate through mass media and social media, those that we encounter in museums and galleries. Although all the artists

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she examines express their relation to images uniquely, they also offer a vantage point on today's productive-consumptive image circuits in which billions of us are caught. This unregulated, all-encompassing image performativity, Harbison writes, puts us to work, for free, in the service of global corporate expansion. Harbison offers a three-part interpretive framework for understanding this new proximity to images as it is negotiated by these artworks, a detailed outline of a set of connected practices—and a declaration of the value of art in an economy of attention and a crisis of representation.

Photochemical Purification of Water and Air

- Thomas Oppenländer 2007-06-27

While the treatment of water and exhaust gas using ultraviolet (UV) light offers both ecological and economic advantages, information on photo-initiated advanced oxidation technologies (AOTs) has been dispersed among various journals and proceedings until now. This authoritative and

comprehensive handbook is the first to cover both the photochemical fundamentals and practical applications, including a description of advanced oxidation processes (AOPs) and process engineering of suitable photoreactors. The author presents various real-world examples, including economic aspects, while many references to current scientific literature facilitate access to current research topics relevant for water and air industries.

Throughout, over 140 detailed figures visualize photochemical and photophysical phenomena, and help in interpreting important research results. From the foreword by James R. Bolton (President of Bolton Photosciences Inc., Executive Director of the International Ultraviolet Association (IUVA)): "Prof. Oppenländer is well qualified to write about the AOPs/AOTs, since he has contributed to this literature in a very significant manner. This book will be of considerable value to graduate students, science and engineering faculty,

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scientists, process engineers and sales engineers in industry, government regulators and health professionals."

The Pictures Generation, 1974-1984 - Douglas Eklund 2009

Artists: John Baldessari, Ericka Beckman, Dara Birnbaum, Barbara Bloom, Eric Bogosian, Glenn Branca, Tony Brauntuch, James Casebere, Sarah

Charlesworth, Charles Clough, Nancy Dwyer, Jack Goldstein, Barbara Kruger, Jouse Lawler, Thomas Lawson, Sherrie Levine, Robert Longo Allan McCollum, Paul McMahan, MICA-TV (Carole Ann Klonarides and Michael Owen), Matt Mullican, Tom Otterness, Richard Prince, David Salle, Cindy Sherman, Laurie Simmons, Michael Smith, James Welling, Michael Zwack.