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KEY=DIRECTVIEW - JILLIAN TRISTIAN

QUALITY ASSURANCE PROGRAMME FOR DIGITAL MAMMOGRAPHY

This manual provides a harmonized approach to quality assurance (QA) in the emerging area of digital mammography. It outlines the principles of, and specific instructions that can be used for, a QA programme for the optimal detection of early stage breast cancer within a digital environment. Intended for use by Member States that are now using digital mammography or that are assessing the implications of using digital mammography, it addresses major areas such as considerations concerning the transition from screen film to digital mammography, basic principles of QA, clinical image quality, quality control tests for radiographers, and quality control tests for medical physicists, including dosimetry assessment. Instructional materials to supplement the knowledge of professionals already working in the field of diagnostic radiology, as well as quality control worksheets, are also provided.

COLLECTED WORKS OF SHINYA INOUE

MICROSCOPES, LIVING CELLS, AND DYNAMIC MOLECULES

World Scientific This book collects the publications of Shinya Inou(r), pioneering cell biophysicist and winner of the 2003 International Prize for Biology. The articles cover the discovery, and elucidate the behavior in living cells, of the dynamic molecular filaments which organize the cell and play a central role in cell division. Other articles report on the development of microscopes, especially those using polarized light and digital image enhancement, which make possible studies of the ever-changing molecular architecture directly in living cells. This book also contains many high quality photo-micrographs as well as an appended DVD with an extensive collection of video movies of active living cells. After training in Tokyo and at Princeton University, Dr Inou(r) has held teaching positions at the University of Washington, Tokyo Metropolitan University, University of Rochester, Dartmouth Medical School, and University of Pennsylvania. He is a member of the U.S. National Academy of Sciences and currently holds the title of Distinguished Scientist at the Marine Biological Laboratory in Woods Hole, Massachusetts."

SCHLIEREN AND SHADOWGRAPH TECHNIQUES

VISUALIZING PHENOMENA IN TRANSPARENT MEDIA

Springer Science & Business Media Schlieren and shadowgraph techniques are basic and valuable tools in various scientific and engineering disciplines. They allow us to see the invisible: the optical inhomogeneities in transparent media like air, water, and glass that otherwise cause only ghostly distortions of our normal vision. These techniques are discussed briefly in many books and papers, but there is no up-to-date complete treatment of the subject before now. The book is intended as a practical guide for those who want to use these methods, as well as a resource for a broad range of disciplines where scientific visualization is important. The colorful 400-year history of these methods is covered in an extensive introductory chapter accessible to all readers.

NEUTRONS AND SYNCHROTRON RADIATION IN ENGINEERING MATERIALS SCIENCE

FROM FUNDAMENTALS TO MATERIAL AND COMPONENT CHARACTERIZATION

Wiley-VCH

BLUE WATER NAVY VIETNAM VETERANS AND AGENT ORANGE EXPOSURE

National Academies Press Over 3 million U.S. military personnel were sent to Southeast Asia to fight in the Vietnam War. Since the end of the Vietnam War, veterans have reported numerous health effects. Herbicides used in Vietnam, in particular Agent Orange have been associated with a variety of cancers and other long term health problems from Parkinson's disease and type 2 diabetes to heart disease. Prior to 1997 laws safeguarded all service men and women deployed to Vietnam including members of the Blue Navy. Since then, the Department of Veteran Affairs (VA) has established that Vietnam veterans are automatically eligible for disability benefits should they develop any disease associated with Agent Orange exposure, however, veterans who served on deep sea vessels in Vietnam are not included. These "Blue Water Navy" veterans must prove they were exposed to Agent Orange before they can claim benefits. At the request of the VA, the Institute of Medicine (IOM) examined whether Blue Water Navy veterans had similar exposures to Agent Orange as other Vietnam veterans. *Blue Water Navy Vietnam Veterans and Agent Orange Exposure* comprehensively examines whether Vietnam veterans in the Blue Water Navy experienced exposures to herbicides and their contaminants by reviewing historical reports, relevant legislation, key personnel insights, and chemical analysis to resolve current debate on this issue.

HELMET-MOUNTED DISPLAYS

SENSATION, PERCEPTION, AND COGNITION ISSUES

DIGITAL MAMMOGRAPHY

Springer Science & Business Media Digital Radiography has been firmly established in diagnostic radiology during the last decade. Because of the special requirements of high contrast and spatial resolution needed for roentgen mammography, it took some more time to develop digital mammography as a routine radiological tool. Recent technological progress in detector and screen design as well as increased experience with computer applications for image processing have now enabled Digital Mammography to become a mature modality that opens new perspectives for the diagnosis of breast diseases. The editors of this timely new volume Prof. Dr. U. Bick and Dr. F. Diekmann, both well-known international leaders in breast imaging, have for many years been very active in the frontiers of theoretical and translational clinical research, needed to bring digital mammography finally into the sphere of daily clinical radiology. I am very much indebted to the editors as well as to the other internationally recognized experts in the field for their outstanding state of the art contributions to this volume. It is indeed an excellent handbook that covers in depth all aspects of Digital Mammography and thus further enriches our book series Medical Radiology. The highly informative text as well as the numerous well-chosen superb illustrations will enable certified radiologists as well as radiologists in training to deepen their knowledge in modern breast imaging.

3D STRUCTURE FROM IMAGES - SMILE 2000

SECOND EUROPEAN WORKSHOP ON 3D STRUCTURE FROM MULTIPLE IMAGES OF LARGE-SCALE ENVIRONMENTS DUBLIN, IRELAND, JULY 12, 2000, REVISED PAPERS

Springer This volume contains the final version of the papers originally presented at the second SMILE workshop 3D Structure from Multiple Images of Large-scale Environments, which was held on 1-2 July 2000 in conjunction with the Sixth European Conference in Computer Vision at Trinity College Dublin. The subject of the workshop was the visual acquisition of models of the 3D world from images and their application to virtual and augmented reality. Over the last few years tremendous progress has been made in this area. On the one hand important new insights have been obtained resulting in more exhibitory and new representations. On the other hand a number of techniques have come to maturity, yielding robust algorithms delivering good results on real image data. Moreover supporting technologies - such as digital cameras, computers, disk storage, and visualization devices - have made things possible that were infeasible just a few years ago. Opening the workshop was Paul Debevec's invited presentation on image-based modeling, rendering, and lighting. He presented a number of techniques for using digital images of real scenes to create 3D models, virtual camera moves, and realistic computer animations. The remainder of the workshop was divided into three sessions: Computation and Algorithms, Visual Scene Representations, and Extended Environments. After each session

there was a panel discussion that included all speakers. These panel discussions were organized by Bill Triggs, Marc Pollefeys, and Tomas Pajdla respectively, who introduced the topics and moderated the discussion. A substantial part of these proceedings are the transcripts of the discussions following each paper and the full panel sessions. These discussions were of very high quality and were an integral part of the workshop.

DIGITAL MAMMOGRAPHY

Lippincott Williams & Wilkins Bogen er en grundlæggende lærebog om digital mammografi, hvori digital mammografi og traditionel mammografi også sammenlignes i forhold til screening, diagnoser og radiografisk billedteknik. Der er en komplet billedsamling af cases indenfor digital mammografi.

INSECT-PLANT INTERACTIONS

Springer Science & Business Media The authoritative overviews in this volume provide a wealth of practical information on current approaches to the study of insect-plant interactions. Methods described include direct behavioral observation; assays of host finding, oviposition, and feeding behavior of insect herbivores; post-ingestion physiological effects; measurement of food quality and sensory responses of insects to plant stimuli; chemical isolation and identification of active phytochemicals; evaluation of plant resistance to insects; and the biochemistry of allelochemic interactions.

CHINA'S ELECTRONICS INDUSTRY

THE DEFINITIVE GUIDE FOR COMPANIES AND POLICY MAKERS WITH INTEREST IN CHINA

William Andrew China's Electronics Industry is a comprehensive and current report on the technologies, manufacturing capabilities, and infrastructure that have made China a major player in the electronics industry. Not only does it cover the past, present, and future of important electronic technologies, but also the pros and cons of conducting business in China. This is an important reference for any company planning a venture in China as well as those who have already taken their first steps. It will also be of great interest to researchers and policy makers who need to know more about the role of central government in promoting strategic industries and assisting national science and technology development. Much of the data contained in the report is from 2006. No country has burst onto the economic scene as dramatically as China has in the past decade. It is the world's largest producer of many electronic products and has a leading edge semiconductor industry. This timely and comprehensive report from America's leading authority is a critical for anyone who is interested in working with China in the electronics field including business managers, academics, government institutes, foreign investors, as well as those who are interested in the past, present and future growth of China's Electronics Industry. If you are thinking about doing business in china's electronics industry, you must have this book.

FREDERIC REMINGTON

THE COLOR OF NIGHT

Princeton University Press Introduction/ Nancy K. Anderson -- What's out there? Frederic Remington's art of darkness/ William C. Sharpe -- Dark, disquiet: Remington's late nocturnes/ Nancy Anderson -- Burning daylight: Remington, electricity, and flash photography/ Alexander Nemerov -- Nocturnes: a catalogue -- Appendix: Notes on conservation/ Ross Merrill, Thomas J. Branchick, Perry Huston, Norman E. Muller, Robert G. Proctor, Jr., Jill Whitten.

THE ADVERTISING RED BOOKS: BUSINESS CLASSIFICATIONS

HOLOGRAPHY FOR THE NEW MILLENNIUM

Springer Science & Business Media This book provides a review of the development of the field and applications likely to be important in the 21st century. It begins with a review by Dennis Leith, one of the inventors of holography - or re-inventors, after Denis Gabor's original work in 1947.

BINARY AND MULTIPLE STARS AS TRACERS OF STELLAR EVOLUTION

PROCEEDINGS OF THE 69TH COLLOQUIUM OF THE INTERNATIONAL ASTRONOMICAL UNION, HELD IN BAMBERG, F.R.G., AUGUST 31 - SEPTEMBER 3, 1981

Springer Science & Business Media **Proceedings of the 69th Colloquium of the International Astronomical Union held in Bamberg, F.R.G., August 31-September 3, 1981**

RADIOLOGY

AN ILLUSTRATED HISTORY

Mosby Incorporated **(1E 1989) Concer**

HELMET MOUNTED DISPLAYS

DESIGN ISSUES FOR ROTARY-WING AIRCRAFT

SPIE Press **The incorporation of technology into aviation has been exponential. Advancements in microelectronics, stealth technology, engine design, and electronic sensors and displays have converted simple aircraft into formidable flying machines. In this book, recognised experts in aviation helmet-mounted displays (HMDs) summarise 25 years of knowledge and experience in the area of HMD visual, acoustic, and biodynamic performance, and user interface issues such as sizing, fitting, and emergency egress.**

BORATE GLASSES

STRUCTURE, PROPERTIES, APPLICATIONS

Springer Science & Business Media **Boron Oxide plays a key role in numerous glasses of high technological importance, yet its role in glass structure is far from clear. Indeed, in recent years there have been serious challenges to previous structure concepts for both crystalline and glassy borates. These challenges were sufficient to warrant a re examination of the structure of borate glasses using the most powerful tools currently available. To provide a suitable forum for this undertaking, a four-day conference on "Boron in Glass and Glass Ceramics" was convened at Alfred University, June 3-8, 1977 to review the best scientific thinking on structure and to debate conflicting views and discuss properties and applications of borate glasses. This conference was also the first in a New University series on Glass Science to be rotated among Alfred University, The Pennsylvania State University, Rensselaer Polytechnic Institute, and the University of Missouri-Rolla. The present volume represents the proceedings of the first conference in this series. The volume begins with a review of the remarkable contribution of Jan Krogh-Moe to the understanding of the structure of Borate glasses. This review, authored by Professor N. J. Kreidl, concludes by dedicating the proceedings of this conference as a Krogh-Moe Festschrift. The volume continues with a historical review by D. L. Griscom, originally prepared for circulation to the contributors prior to the conference. An Epilogue to the opening chapter brings the survey up-to-date in light of the conference papers.**

WEAPONS AND MATERIALS RESEARCH

INDEX OF PATENTS ISSUED FROM THE UNITED STATES PATENT OFFICE

FATIGUE CRACK PROPAGATION IN METALS AND ALLOYS

MICROSTRUCTURAL ASPECTS AND MODELLING CONCEPTS

John Wiley & Sons **This comprehensive overview of the whole field of fatigue and fracture of metallic materials covers both the theoretical background and some of the latest experimental techniques. It provides a summary of the complex interactions between material microstructure and cracks, classifying them with respect to the overall damage process with a focus on microstructurally short cracks and dynamic embrittlement. It furthermore introduces new concepts for the numerical treatment of fatigue microcrack propagation and their implementation in fatigue-life prediction models. This comprehensive overview of the whole field of fatigue and fracture of metallic materials covers both the**

theoretical background and the latest experimental techniques. It provides a summary of the complex interactions between material microstructure and cracks, classifying them with respect to the overall damage process. It furthermore introduces new concepts for the numerical treatment of fatigue microcrack propagation and their implementation in fatigue-life prediction models.

TAMING THE RAYS

[Lulu.com](#) **A history of developments in the uses of radioactivity and ionising radiation in the last century and the measures used to protect people from harmful effects. The sources of radiation exposure covered include medical uses, nuclear power generation and natural ones, such as that from radon. The book traces the evolution of our understanding of the effects of radiation on the human body, particularly those leading to cancer and hereditary diseases. One of the key challenges for practitioners was constructing manageable frameworks for evaluating these effects so that there could be effective control and regulation. The book emphasises the international nature of these efforts and the need to change approaches as more data became available after the Second World War. For the second edition the opportunity has been taken to revise the citation system and make some correction but the major change is the addition of two new Chapters: one on nuclear criticality safety and the other on nuclear safety assessment.**

THE FURNITURE INDUSTRY AND ITS POTENTIAL MARKET

THE TEACHING OF GEOMETRY

BORATE GLASSES, CRYSTALS & MELTS

STRUCTURE & APPLICATIONS

HARDWARE HACKER

ON RADIANT MATTER

A Lecture by Sir William Crookes. Delivered in 1879. Additional Illustrated Content by Kyle Dell'Aquila.

FREDERIC REMINGTON

A BIOGRAPHY

[Doubleday Books](#) **Traces the life and career of the American artist and illustrator famous for his scenes of nineteenth-century Western life**

NEUTRON APPLICATIONS IN EARTH, ENERGY AND ENVIRONMENTAL SCIENCES

[Springer Science & Business Media](#) **Neutron Applications in Earth, Energy and Environmental Sciences offers a comprehensive overview of the wide ranging applications of neutron scattering techniques to elucidate the fundamental materials properties at the nano-, micro- and meso-scale, which underpin research in the related fields of Earth, Energy and Environmental Sciences. Introductions to neutron scattering fundamentals and instrumentation are paired with a thorough review of the applications to a large variety of scientific and technological problems, written through the direct experience of leading scientists in each field. Tailored to a wide audience, this volume provides the novice with an inspiring introduction and stimulates the expert to consider these non-conventional problem solving techniques in his/her field of interest. Earth and environmental scientists, engineers, researchers and graduate students involved with materials science will find Neutron Applications in Earth, Energy and Environmental Sciences a valuable ready-to-use reference.**

MOTHER MILLETT

[Verso](#) **A poignant memoir of loss and reestablishment.**

HUMAN FACTORS IN AUTOMOTIVE DESIGN

Collection of papers from the "Human Factors in Driving," "Human Factors in Automotive Telematics," and "Human Factors in Seating Comfort" sessions of the 2001 SAE World Congress, held March 5-8 in Detroit, Michigan. Papers contribute to the understanding and advancement of the systematic consideration of drivers in relation to vehicles and environments. The primary focus relates to driver information processing, reaction time, and visual-spatial memory. Papers address the ergonomic challenges that the technological explosion of infotainment/telematic systems impose in the design of vehicle interiors. Emphasis is on drivers' distractions and their cognitive implications. Papers encompassing basic research on seating comfort address a range of topical issues related to seating, such as fatigue, ride quality, lateral support while cornering, and methodologies to measure comfort.

GUIDE TO STRUCTURAL OPTIMIZATION

Amer Society of Civil Engineers Optimization methods are perceived to be at the heart of computer methods for designing engineering systems. With these optimization methods, the designer can evaluate more alternatives, resulting in a better and more cost-effective design. This guide describes the use of modern optimization methods with simple yet meaningful structural design examples. Optimum solutions are obtained and, where possible, compared with the solutions obtained using traditional design procedures.

HIGH TEMPERATURE STRAIN OF METALS AND ALLOYS

PHYSICAL FUNDAMENTALS

John Wiley & Sons Creep and fatigue are the most prevalent causes of rupture in superalloys, which are important materials for industrial usage, e.g. in engines and turbine blades in aerospace or in energy producing industries. As temperature increases, atom mobility becomes appreciable, affecting a number of metal and alloy properties. It is thus vital to find new characterization methods that allow an understanding of the fundamental physics of creep in these materials as well as in pure metals. Here, the author shows how new in situ X-ray investigations and transmission electron microscope studies lead to novel explanations of high-temperature deformation and creep in pure metals, solid solutions and superalloys. This unique approach is the first to find unequivocal and quantitative expressions for the macroscopic deformation rate by means of three groups of parameters: substructural characteristics, physical material constants and external conditions. Creep strength of the studied up-to-date single crystal superalloys is greatly increased over conventional polycrystalline superalloys. From the contents: - Macroscopic characteristics of strain at high temperatures - Experimental equipment and technique of in situ X-ray investigations - Experimental data and structural parameters in deformed metals - Subboundaries as dislocation sources and obstacles - The physical mechanism of creep and the quantitative structural model - Simulation of the parameters evolution - System of differential equations - High-temperature deformation of industrial superalloys - Single crystals of superalloys - Effect of composition, orientation and temperature on properties - Creep of some refractory metals For materials scientists, solid state physicists, solid state chemists, researchers and practitioners from industry sectors including metallurgical, mechanical, chemical and structural engineers.

TACTICAL DISPLAY FOR SOLDIERS

HUMAN FACTORS CONSIDERATIONS

National Academies Press This book examines the human factors issues associated with the development, testing, and implementation of helmet-mounted display technology in the 21st Century Land Warrior System. Because the framework of analysis is soldier performance with the system in the full range of environments and missions, the book discusses both the military context and the characteristics of the infantry soldiers who will use the system. The major issues covered include the positive and negative effects of such a display on the local and global situation awareness of the individual soldier, an analysis of the visual and psychomotor factors associated with each design feature, design considerations for auditory displays, and physical sources of stress and the implications of the display for affecting the soldier's workload. The book proposes an innovative approach to research and testing based on a three-stage strategy that begins in the laboratory, moves to controlled field studies, and culminates in operational testing.

TORT LAW AND PRACTICE

PATIENT DOSIMETRY FOR X-RAYS USED IN MEDICAL IMAGING

BIG WAVE SURFER

THE GREATEST RIDES OF OUR LIVES

Rizzoli Publications A jaw-dropping photographic display of the world of big wave surfing, featuring the biggest and most dangerous waves and the legendary men and women who risk their lives to surf them. Over the last decade, a handful of surfers have been progressing the sport of big wave surfing to new extremes. Kai Lenny, one of the preeminent big wave surfers, offers readers a glimpse into this world. Lenny shares his personal stories and perspectives, and invites over 30 elite surfers—from legends who pioneered the way, to young guns who are the future of the sport—to contribute personal tales of the greatest waves ever ridden. These are the stories we've been waiting for: Shane Dorian pushing the boundaries in the gladiator arena of Pe'ahi (Jaws), Maui; Peter Mel on riding the greatest wave ever caught at Mavericks, California; Keala Kennelly breaking the women's glass ceiling at the death-defying slabs of Teahupoo, Tahiti; Kai Lenny and Lucas Chumbo's groundbreaking wins at the incredible Nazaré, Portugal; Brett Lickle's epic incident at the mystical Pyramids with Laird Hamilton, and many more. Accompanying stunning photographs from the world's top surf photographers capture the drama of life and death, and the unwavering commitment of these brave extreme athletes.

WHITE SHROUD

Considered by many to be Lithuania's most important work of modernist fiction, this novel tells the story of Antanas Garsva, an emigre poet working as an elevator operator in a large New York hotel in the 1950s.