

# ***Geometry In The Open Air***

The book comprises of different areas in which vortex dynamics is important, its generation, evolution, interactions with other motions, and finally the ways it can be controlled. Vortex characteristics are important in many aspects of our lives, from blood circulation in the arteries to the high-speed jet. Flow control and manipulation of vortices have been used

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to reduce drag for large tankers resulting in billions of dollars in savings. An effective smoke management system must be put in place for critical areas to ensure the safety of people, for example in a very large shopping complex or a large airport. Advanced computational and cloud-computing facilities have contributed significantly to large-scale simulation projects. Therefore, validations could be performed for larger windows of

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study so that it can now cover the entire e.g. central business district (CBD) for urban heat island (UHI) study or land-ocean interactions.

The quality of life of millions of people living in cities could be improved if the form of the city were to evolve in a manner appropriate to its climatic context. Climatically responsive urban design is vital to any notion of sustainability: it enables individual buildings to make use of

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renewable energy sources for passive heating and cooling, it enhances pedestrian comfort and activity in outdoor spaces, and it may even encourage city dwellers to moderate their dependence on private vehicles. Urban Microclimate bridges the gap between climatology research and applied urban design. It provides architects and urban design professionals with an understanding of how the structure of the built

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environment at all scales affects microclimatic conditions in the space between buildings, and analyzes the interaction between microclimate and each of the elements of the urban landscape. In the first two sections of the book, the extensive body of work on this subject by climatologists and geographers is presented in the language of architecture and planning professionals. The third section follows each step in the design

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process, and in part four a critical analysis of selected case study projects provides a demonstration of the complexity of applied urban design. Practitioners will find in this book a useful guide to consult, as they address these key environmental issues in their own work.

This richly-illustrated reference guide presents innovative techniques focused on reducing time, cost and risk in the construction and maintenance of

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underground facilities: A primary focus of the technological development in underground engineering is to ease the practical execution and to reduce time, cost and risk in the construction and maintenance of underground facilities such as tunnels and caverns. This can be realized by new design tools for designers, by instant data access for engineers, by virtual prototyping and training for manufacturers, and by robotic devices for maintenance and

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repair for operators and many more advances. This volume presents the latest technological innovations in underground design, construction, and operation, and comprehensively discusses developments in ground improvement, simulation, process integration, safety, monitoring, environmental impact, equipment, boring and cutting, personnel training, materials, robotics and more. These new features are the result of a big

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research project on underground engineering, which has involved many players in the discipline. Written in an accessible style and with a focus on applied engineering, this book is aimed at a readership of engineers, consultants, contractors, operators, researchers, manufacturers, suppliers and clients in the underground engineering business. It may moreover be used as educational material for advanced courses in tunnelling and

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underground construction.

Technology Innovation in Underground  
Construction

Undergraduate Research in Architecture

Fundamentals of Radiation Oncology

Computers in Railways XIII

Physical, Biological, and Clinical  
Aspects

The Journal of Education

***This book is essential reading for anyone responsible for designing or putting workers to task on, or near, large power electrical systems. This is especially relevant where local***

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*health and safety law uses a risk-based approach to electrical safety such as in Europe. It is based upon a bedrock of risk management methodology using the 4Ps of Predict, Prevent, Process and Protect to ensure that arc flash hazards are systematically identified, analysed, and prevented from causing harm. Each of the 4Ps are described in detail starting with a quantitative prediction of harm from the arc flash hazard and then a separate chapter on prevention based upon practical measures avoid or minimise harm set against a hierarchy of risk control measures. The chapter on process, policy and procedures gives advice on a methodical approach to creating rules and ensuring competence. Finally, the chapter on protection describes, as a last resort, how personal*

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*protective equipment can be selected, used, and maintained. This book is packed with the fruits of the author's vast experience and there is a chapter dedicated to myths and mysteries as well as separate chapters for electrical utilities, duty holders, service providers, contractors, legislation, and data collection.*

*One of the grand challenges of artificial intelligence is to enable computers to interpret 3D scenes and objects from imagery. This book organizes and introduces major concepts in 3D scene and object representation and inference from still images, with a focus on recent efforts to fuse models of geometry and perspective with statistical machine learning. The book is organized into three sections: (1) Interpretation of*

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*Physical Space; (2) Recognition of 3D Objects; and (3) Integrated 3D Scene Interpretation. The first discusses representations of spatial layout and techniques to interpret physical scenes from images. The second section introduces representations for 3D object categories that account for the intrinsically 3D nature of objects and provide robustness to change in viewpoints. The third section discusses strategies to unite inference of scene geometry and object pose and identity into a coherent scene interpretation. Each section broadly surveys important ideas from cognitive science and artificial intelligence research, organizes and discusses key concepts and techniques from recent work in computer vision, and describes a few sample approaches in detail. Newcomers to*

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*computer vision will benefit from introductions to basic concepts, such as single-view geometry and image classification, while experts and novices alike may find inspiration from the book's organization and discussion of the most recent ideas in 3D scene understanding and 3D object recognition. Specific topics include: mathematics of perspective geometry; visual elements of the physical scene, structural 3D scene representations; techniques and features for image and region categorization; historical perspective, computational models, and datasets and machine learning techniques for 3D object recognition; inferences of geometrical attributes of objects, such as size and pose; and probabilistic and feature-passing approaches for contextual*

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*reasoning about 3D objects and scenes. Table of Contents: Background on 3D Scene Models / Single-view Geometry / Modeling the Physical Scene / Categorizing Images and Regions / Examples of 3D Scene Interpretation / Background on 3D Recognition / Modeling 3D Objects / Recognizing and Understanding 3D Objects / Examples of 2D 1/2 Layout Models / Reasoning about Objects and Scenes / Cascades of Classifiers / Conclusion and Future Directions*

*Expand your understanding of the physics and practical clinical applications of advanced radiation therapy technologies with Khan's *The Physics of Radiation Therapy*, 5th edition, the book that set the standard in the field. This classic full-color text helps the entire radiation therapy*

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*team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—develop a thorough understanding of 3D conformal radiotherapy (3D-CRT), stereotactic radiosurgery (SRS), high dose-rate remote afterloaders (HDR), intensity modulated radiation therapy (IMRT), image-guided radiation therapy (IGRT), Volumetric Modulated Arc Therapy (VMAT), and proton beam therapy, as well as the physical concepts underlying treatment planning, treatment delivery, and dosimetry. In preparing this new Fifth Edition, Dr. Kahn and new co-author Dr. John Gibbons made chapter-by-chapter revisions in the light of the latest developments in the field, adding new discussions, a new chapter, and new color illustrations throughout. Now even more precise and*

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*relevant, this edition is ideal as a reference book for practitioners, a textbook for students, and a constant companion for those preparing for their board exams. Features Stay on top of the latest advances in the field with new sections and/or discussions of Image Guided Radiation Therapy (IGRT), Volumetric Modulated Arc Therapy (VMAT), and the Failure Mode Event Analysis (FMEA) approach to quality assurance. Deepen your knowledge of Stereotactic Body Radiotherapy (SBRT) through a completely new chapter that covers SBRT in greater detail. Expand your visual understanding with new full color illustrations that reflect current practice and depict new procedures. Access the authoritative information you need fast through the new*

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*companion website which features fully searchable text and an image bank for greater convenience in studying and teaching. This is the tablet version which does not include access to the supplemental content mentioned in the text.*

*2007 ACSA Annual Meeting, Philadelphia, PA*

*Models and Applications*

*The Handbook of Tunnel Fire Safety*

*The Teaching of Arithmetic*

*Fun with Maths and Physics*

*British Art in the Nuclear Age*

*Undergraduate Research in Architecture:  
A Guide for Students supplies tools for*

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*scaffolding research skills, with examples of undergraduate research activities and case studies on projects in the various areas of architecture study. Undergraduate research has become a common degree requirement in some disciplines and is growing rapidly. Many undergraduate activities in music have components that could be combined into compelling undergraduate research projects, either in the required curriculum, as part of*

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*existing courses, or in capstone courses centered on undergraduate research. Following an overview chapter, the next seven chapters cover research skills including literature reviews, choosing topics, formulating questions, citing sources, disseminating results, and working with data and human subjects. A wide variety of sub-disciplines follow in the remaining chapters, with sample project ideas from each as well as*

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*undergraduate research conference abstracts. The final chapter is an annotated guide to online resources. Included are some inspirational quotations concerning architecture's commitment to research, and some examples of professional research that support the focus of the chapter. All chapters end with relevant questions for discussion.*

*Air pollution has been a major transboundary problem and a matter of*

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*global concern for decades. High concentrations of different air pollutants are particularly harmful to large cities residents, where numerous anthropogenic activities strongly influence the quality of air. Although there are many books on the subject, the one in front of you will hopefully fulfill some of the gaps in the area of air quality monitoring and modeling, and be of help to graduate students, professionals and researchers. The book*

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*is divided in five sections, dealing with mathematical models and computing techniques used in air pollution monitoring and forecasting; air pollution models and application; measuring methodologies in air pollution monitoring and control; experimental data on urban air pollution in China, Egypt, Northeastern U.S, Brazil and Romania; and finally, the health effects due to exposure to benzene, and on the influence of air*

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*pollutants on the acute respiratory diseases in children in Mexico.*

*Thermal Design: Heat Sinks, Thermoelectrics, Heat Pipes, Compact Heat Exchangers, and Solar Cells, Second Edition, is a significantly updated new edition which now includes a chapter on thermoelectrics It covers thermal devices such as heat sinks, thermoelectric generators and coolers, heat pipes, and heat exchangers as design components in larger systems.*

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*These devices are becoming increasingly important and fundamental in thermal design across such diverse areas as microelectronic cooling, green or thermal energy conversion, and thermal control and management in space. The underlying concepts in this book cover the understanding of the physical mechanisms of the thermal devices with the essential formulas and detailed derivations, and also the design of the thermal devices in conjunction with*

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*mathematical modeling, graphical optimization, and occasionally computational-fluid-dynamic (CFD) simulation. This new edition includes more examples, problems and tutorials, and a solutions manual is available on a companion website.*

*Handbook of Dimensional Measurement  
Radiation Safety in Radiation Oncology  
Applied Computational Geometry. Towards  
Geometric Engineering  
Publications of the National Institute*

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*of Standards and Technology ... Catalog  
Apparent and Microscopic Contact Angles  
A Guide for Students*

**The proposed book aims to explain the basic principles, concepts and regulations behind radiation protection and their application in the field of radiation oncology practice. This book will be useful to all those students, teachers and practicing professionals involved in the field of radiation oncology.**

**Containing the proceedings of the Thirteenth International Conference on Design and Operation in Railway Engineering, this book presents the latest developments in the use of computer-based techniques in the design and operation of railways. The COMPRAIL conference series serves as the forum for major advances in this important field. The book covers such topics as Advanced Train Control; Planning; Timetable Planning; Rescheduling; Risk**

**Management; Safety and Security;  
Maglev and High-speed Railways; Traffic  
Control and Safety of High-speed  
Railways; Metro and Other Transit  
Systems; Communications and  
Signalling; Energy Supply and  
Consumption; Driverless and Automatic  
Train Operation; Operations Quality;  
Computer Techniques and Simulations;  
Railway Vehicle Dynamics; Dynamics and  
Wheel/Rail Interface; Monitoring and  
Maintenance; Crack, Damage and**

**Fatigue Problems.**The book will be of interest to railway managers, consultants, railway engineers (including signal and control engineers), designers of advanced train control systems and computer specialists

**Rooted in the study of objects, British Art in the Nuclear Age** addresses the role of art and visual culture in discourses surrounding nuclear science and technology, atomic power, and nuclear warfare in Cold War Britain. Examining

**both the fears and hopes for the future that attended the advances of the nuclear age, nine original essays explore the contributions of British-born and ?gr?rtists in the areas of sculpture, textile and applied design, painting, drawing, photo-journalism, and exhibition display. Artists discussed include: Francis Bacon, John Bratby, Lynn Chadwick, Prunella Clough, Naum Gabo, Barbara Hepworth, Peter Lanyon, Henry Moore, Eduardo Paolozzi, Peter**

**Laszlo Peri, Isabel Rawsthorne, Alan Reynolds, Colin Self, Graham Sutherland, Feliks Topolski and John Tunnard. Also under discussion is new archival material from Picture Post magazine, and the Festival of Britain. Far from insular in its concerns, this volume draws upon cross-cultural dialogues between British and European artists and the relationship between Britain and America to engage with an interdisciplinary art history that will also prove useful to students and**

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**researchers in a variety of fields including modern European history, political science, the history of design, anthropology, and media studies.**

**Khan's The Physics of Radiation Therapy**

**Computer System Design and Operation in the Railway and Other Transit Systems**

**The Japan Architect**

**The European Arc Flash Guide**

**Structural Design for Fire Safety**

**Publications**

*Like New, No Highlights, No Markup, all*

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*pages are intact.*

*Nineteen Fact-Filled Charters that contain authoritative treatment of all aspects of dimensional measurement technology make Handbook of Dimensional Measurement the most readable and comprehensive guide available for engineers and technicians engaged in the various stages of industrial production. Design engineers, manufacturing engineers, tool and gage makers, quality control specialists,*

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*and reliability experts will find a wealth of practical data as well as complete coverage - both basic and advanced - of dimensional measurement techniques and equipment. The Third Edition of this classic book has been completely revised to include the computer and electronics revolution in metrology. Virtually every type of measurement instrument and machine, even the newest devices, can be found in these pages. Hundreds of changes,*

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*and additions and scores of new illustrations have been incorporated to assure that Handbook of Dimensional Measurement retains its status as the standard reference for the practitioner of dimensional measurement.*

*Content Description #Anthology selected from contributions to the First ACM Workshop on Applied Computational Geometry.#Includes bibliographical references and index.*

*Heat Sinks, Thermoelectrics, Heat*

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*Pipes, Compact Heat Exchangers, and  
Solar Cells*

*Khan's The Physics of Radiation Therapy*

*Astronomy for Entertainment*

*FCRC '96 Workshop, WACG '96,*

*Philadelphia, PA, May 27 - 28, 1996,*

*Selected Papers*

*Representations and Techniques for 3D*

*Object Recognition and Scene*

*Interpretation*

*Urban Microclimate*

*A collection of physics experiments, mathematical activities*

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*and problems, and puzzles.*

*Dr. Khan's classic textbook on radiation oncology physics is now in its thoroughly revised and updated Fourth Edition. It provides the entire radiation therapy team—radiation oncologists, medical physicists, dosimetrists, and radiation therapists—with a thorough understanding of the physics and practical clinical applications of advanced radiation therapy technologies, including 3D-CRT, stereotactic radiotherapy, HDR, IMRT, IGRT, and proton beam therapy. These technologies are discussed along with the physical concepts underlying treatment planning, treatment delivery, and dosimetry. This Fourth Edition includes brand-new chapters on image-guided radiation therapy (IGRT) and proton beam*

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*therapy. Other chapters have been revised to incorporate the most recent developments in the field. This edition also features more than 100 full-color illustrations throughout. A companion Website will offer the fully searchable text and an image bank.*

*Astronomy is a fortunate science; it needs no embellishments, said the French savant Arago. So fascinating are its achievements that no special effort is needed to attract attention. Nonetheless, the science of the heavens is not only a collection of astonishing revelations and daring theories. Ordinary facts, things that happen, day by day, are its substance. Most laymen have, generally speaking, a rather hazy notion of this prosaic aspect of astronomy. They find it of*

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*little interest, for it is indeed hard to concentrate on what is always before the eye. Everyday happenings in the sky are the contents of this book, free from professional terminology with easy reading. Its purpose is to initiate the reader into the basic facts of astronomy. Ordinary facts with which you may be acquainted are couched here in unexpected paradoxes, or slanted from an odd and unexpected angle solely to excite the imagination and quicken your interest. The daily aspect of the science of the skies, its beginnings, not later findings that mainly form the contents of Astronomy for Entertainment. The purpose of the book is to initiate the reader into the basic facts of astronomy. Ordinary facts with which you may be acquainted are couched here in unexpected paradoxes, or*

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*slanted from an odd and unexpected angle. The theme is, as far as possible, free from "terminology" and technical paraphernalia that so often make the reader shy of books on astronomy. Books on popular science are often rebuked for not being sufficiently serious. In a way the rebuke is just, and support for it can be found (if one has in mind the exact natural sciences) in the tendency to avoid calculations in any shape or form. And yet the reader can really master his subject only by learning how to reckon, even though in a rudimentary fashion. True, he has taken care to present them in an easy form, well within the reach of all who have studied mathematics at school. It is his conviction that these exercises help not only retain the knowledge acquired; they are also a*

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*useful introduction to more serious reading. This book contains chapters relating to the Earth, the Moon, planets, stars and gravitation. The author has concentrated in the main on materials not usually discussed in works of this nature. Subjects omitted in the present book, will, he hopes, be treated in a second volume. The book, it should be said, makes no attempt to analyze in detail the rich content of modern astronomy. Unfortunately Y. Perelman never wrote the continuation he had planned for this book, as untimely death in war bound Leningrad in 1942 interrupted his labours.*

*Outdoor School Work*

*The Physics of Radiation Therapy*

*Chinese Ways of Seeing and Open-Air Painting*

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*NBS Special Publication*

*Journal of Research of the National Bureau of Standards*

*Vortex Dynamics Theories and Applications*

Near the Horizon starts out by considering several optical phenomena that can occur when the sun is near the horizon. One can sometimes see objects that are actually below the horizon. Sometimes there seems to be a dark strip in the middle of the solar disk. These are a result of the way that the atmosphere affects the geometry of

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light rays. Broer starts his book with the Fermat principle (rays of light take least-time paths) and deduces from it laws for refraction and reflection; by expressing these as conservation laws, he can handle both the case of inhomogeneous layers of air and the case of continuous variation in the refraction index. A surprising application is the brachistochrone problem, in which the path of fastest descent is determined by studying how a

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light ray would behave in a “flat earth” atmosphere whose refraction index is determined by the gravitational potential. This leads to a very interesting chapter on the cycloid and its properties. The final chapters move from the elementary theory to a more sophisticated version in which the Fermat Principle leads to a Riemannian metric whose geodesics are the paths of light rays. This gives us an optics which is geometric in a new

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sense, and serves as a nice demonstration of the physical applicability of Riemannian geometry. This book chronicles the proceedings of the International Symposium on Apparent and Microscopic Contact Angles, held in conjunction with the American Chemical Society meeting in Boston, August 24--27, 1998. The symposium provided an opportunity to discuss several controversial issues associated with interfacial phenomena that govern the

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behavior of

Structural Design for Fire Safety, 2nd edition Andrew H. Buchanan, University of Canterbury, New Zealand Anthony K.

Abu, University of Canterbury, New Zealand A practical and informative guide to structural fire engineering

This book presents a comprehensive overview of structural fire engineering. An update on the first edition, the book describes new developments in the past ten years,

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including advanced calculation methods and computer programs. Further additions include: calculation methods for membrane action in floor slabs exposed to fires; a chapter on composite steel-concrete construction; and case studies of structural collapses. The book begins with an introduction to fire safety in buildings, from fire growth and development to the devastating effects of severe fires on large building

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structures. Methods of calculating fire severity and fire resistance are then described in detail, together with both simple and advanced methods for assessing and designing for structural fire safety in buildings constructed from structural steel, reinforced concrete, or structural timber. Structural Design for Fire Safety, 2nd edition bridges the information gap between fire safety engineers, structural engineers and building

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officials, and it will be useful for many others including architects, code writers, building designers, and firefighters. Key features:

- Updated references to current research, as well as new end-of-chapter questions and worked examples.
- Authors experienced in teaching, researching, and applying structural fire engineering in real buildings.
- A focus on basic principles rather than specific building code requirements, for an

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international audience. An essential guide for structural engineers who wish to improve their understanding of buildings exposed to severe fires and an ideal textbook for introductory or advanced courses in structural fire engineering.

Outdoor School Work: a Series of Practical Open-air Studies in Elementary Science, Nature Study, Drawing and Geometry, Etc  
Geometry in the Open Air

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Fresh Air

From Global to Local

Mathematical sciences. B

Air Quality

This book intends to arouse the reader's interest in geometry especially teens who see it as a cold abstract area of mathematics. Through simple problems, illustrative examples, and interesting stories, the author uses geometric notions to address situations one may face in the open air. This includes measuring the height of a tree without having to climb it, evaluating the width of a river, estimating the distance of remote

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objects, etc. The book makes any outdoor tour an entertaining learning experience without the need for any calculations or tables.

A vital reference for the entire radiation oncology team, Khan ' s The Physics of Radiation Therapy thoroughly covers the physics and practical clinical applications of advanced radiation therapy technologies. Dr. John Gibbons carries on the tradition established by Dr. Khan in previous editions, ensuring that the 6th Edition provides state-of-the-art information for radiation oncologists, medical physicists, dosimetrists, radiation therapists, and residents alike. This updated classic remains the most practical radiation therapy physics

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text available, offering an ideal balance between theory and clinical application.

"How did modern Chinese painters see landscape? Did they depict nature in the same way as premodern Chinese painters? What does the artistic perception of modern Chinese painters reveal about the relationship between artists and the nation-state? Could an understanding of modern Chinese landscape painting tell us something previously unknown about art, political change, and the epistemological and sensory regime of twentieth-century China? Yi Gu tackles these questions by focusing on the rise of open-air painting in modern China. Chinese artists almost never painted

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outdoors until the late 1910s, when the New Culture Movement prompted them to embrace direct observation, linear perspective, and a conception of vision based on Cartesian optics. The new landscape practice brought with it unprecedented emphasis on perception and redefined artistic expertise. Central to the pursuit of open-air painting from the late 1910s right through to the early 1960s was a reinvigorated and ever-growing urgency to see suitably as a Chinese and to see the Chinese homeland correctly. Examining this long-overlooked ocular turn, Gu not only provides an innovative perspective from which to reflect on complicated interactions of the global and local in

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China, but also calls for rethinking the nature of visual modernity there."

大阪京都

Thermal Design

Designing the Spaces Between Buildings

Brain Teasers, Tricks, Illusions

Near the Horizon: An Invitation to Geometric Optics

A Practical Approach to the Management of Arc Flash

Risk in Electrical Power Systems for Designers, Duty Holders, Consultants, Service Providers and Health & Safety Specialists

Fundamentals of Radiation Oncology: Physical, Biological, and Clinical Aspects, Third Edition

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continues to provide current, concise, and a readily available source of clinical information for busy practicing radiation oncologists. The book consists of 26 chapters, divided into four parts: Part I describes the basic science of radiation oncology, with discussions of radiation physics, radiation protection, and radiation biology, as well as molecular biology. Part II describes techniques and modalities of radiation oncology including brachytherapy, intensity-modulated radiation therapy (IMRT), stereotactic radiotherapy (SRS), stereotactic body radiation therapy (SBRT), and proton therapy. Significant recent advances made in the areas of immunotherapy and combined modality therapy; as such, these

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chapters have also been added to this new edition. Part III describes the clinical science of radiation oncology including risk factors, symptoms/signs, and investigations needed for the cancer diagnosis and up-to-date treatment recommendations in accordance with the new AJCC staging system. In addition, radiation treatment techniques, with an emphasis on IMRT, have been expanded to all the chapters. Also included in this version of the book is a chapter on benign diseases. Updated annotated bibliographies of latest landmark studies providing evidence-based rationale for the recommended treatments are presented at the end of each chapter. Part IV describes palliative radiation treatments to improve

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the quality of life for cancer patients and the management of side effects from radiation treatment. This book is a must-have for all radiation oncology residents, radiation oncologists and all professionals engaged in the care of cancer patients. New chapters on brachytherapy, IMRT/IGRT, SRS, SBRT, proton therapy, immunotherapy, combined modality therapy, and benign diseases Eighth edition of the AJCC staging system IMRT techniques for all common cancer sites, along with up-to-date treatment recommendations Relevant, landmark studies that provide evidence-based rationale for recommended treatments

Histories of Ornament

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A Series of Practical Open-air Studies in Elementary Science, Nature Study, Drawing and Geometry for Elementary and Preparatory Schools

Calibration of Gamma-ray-emitting Brachytherapy Sources

Publications of the National Bureau of Standards ...  
Catalog