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Medical physics problems and solutions

PAGE 1 PAGE 2 DOI link for Problems and Solutions in Medical PhysicsProblems and Solutions in Medical Physics book "Problems and Solutions in Medical Physics – Nuclear Medicine Physics represents an innovative way of teaching. Instead of using the conventional flow of introducing the basic principles, explaining the theory, providing the numerical equations linking the physical figures of merit, providing examples and finally proposing to the reader some practical exercises, the authors Kwan Hoon Ng, Chai Hong Yeong and Alan Christopher Perkins have chosen a completely different approach. They start from a problem and ask the reader to provide an answer. The problem can be theoretical, descriptive, technological or practical. Irrespective of the nature of the problem, the authors provide a detailed and comprehensive solution for each of them. In doing so they introduce the underlying theory, suggest the qualitative link between the variables involved, illustrate the numerical equations which allows to quantitate the relationship between the variables and guide the reader step by step in the numerical calculations necessary to obtain the final solution, when needed. Following this approach, they cover all the different areas of the Nuclear Medicine specialty: radionuclide and radiopharmaceutical production; imaging, with a special focus on the instrumentation (counters, planar camera, SPECT and PET), the techniques and the ways to ensure the quality of the imaging; radionuclide therapy; internal dosimetry and radioprotection. I was fascinated by this approach, which I found in line with the modern educational techniques. Having had the privilege of chairing the EFOMP - European School for Medical Physics Expert, I was always challenged with the increasing need and demand coming from our students of practical, hands-on, question and answer sessions. I am pleased to recognize that this book provides many, if not all, the answers to the questions that a Medical Physicist must answer in his everyday clinical practice as a health professional." —Dr. Marco Brambilla, President of EFOMP and Head of Medical Physics Department, University Hospital of Novara, in the IOMP Journal Medical Physics International (MPI), May 2020. The first in a three-volume set exploring Problems and Solutions in Medical Physics, this volume explores common questions and their solutions in Diagnostic Imaging. This invaluable study guide should be used in conjunction with other key textbooks in the field to provide additional learning opportunities. It contains key imaging modalities, exploring X-ray, mammography, and fluoroscopy, in addition to computed tomography, magnetic resonance imaging, and ultrasonography. Each chapter provides examples, notes, and references for further reading to enhance understanding. Features: Consolidates concepts and assists in the understanding and applications of the theoretical concepts in medical physics Assists lecturers and instructors in setting assignments and tests Suitable as a revision tool for postgraduate students sitting medical physics, oncology, and radiology sciences examinations Preface Author Bios Contributors Chapter 1. Basic Physics Chapter 2. X-Ray Production Chapter 3. Screen Film Radiology Chapter 4. Digital Radiography Chapter 5. Image Quality Chapter 6. Mammography Chapter 7. Fluoroscopy Chapter 8. Computed Tomography Chapter 9. Magnetic Resonance Imaging Chapter 10. Ultrasound Chapter 11. Radiation Protection and Radiobiology Chapter 12. References Professor Kwan Hoong Ng received his M.Sc. (Medical Physics) from the University of Aberdeen and Ph.D. (Medical Physics) from the University of Malaya, Malaysia. He is certified by the American Board of Medical Physicists. Professor Ng was honored as one of the top 50 medical physicists in the world by the International Organization of Medical Physics (IOMP) in 2013. He also received the International Day of Medical Physics Award in 2016. He has authored/coauthored over 230 papers in peer-reviewed journals, 25 book chapters; and co-edited 5 books. He has presented over 500 scientific papers and more than 300 invited lectures. He has also organized and directed several workshops on radiology quality assurance, digital imaging, and scientific writing. He has also directed research initiatives in breast imaging, intervention radiology, radiological safety, and radiation dosimetry. Professor Ng serves as an International Atomic Energy Agency (IAEA) consultant and a member of International Advisory Committee of the World Health Organization, in addition to previously serving as a consulting expert for the International Commission on Non-Ionizing Radiation Protection (ICNIRP). He is the Founding and Emeritus President of the South East Asian Federation of Medical Physics (SEAFOMP) and is a Past President of the Asia-Oceania Federation of Organizations for Medical Physics (AFOMP). Dr. Jeannie Hsiu-Ding Wong is a senior lecturer at the Department of Biomedical Imaging, Faculty of Medicine, University of Malaya, Kuala Lumpur, Malaysia. She coordinated the Master of Medical Physics programme from 2013 to 2017. Dr. Wong received her Bachelor's degree in Biomedical Engineering from University of Malaya in the year of 2003. In 2004, Dr. Wong obtained her Master of Medical Physics degree from the University of Malaya. In 2008, she furthered her studies at the University of Wollongong, Australia. She obtained her PhD in 2011. Dr. Wong's research interests focus on radiation physics and radiation dosimetry. She had published 27 peer-reviewed articles, 7 conference proceedings and more than 15 scientific papers for both local and international conferences to date. Geoffrey D. Clarke, PhD, FACR, FAAPM, is Professor of Radiology at the University of Texas Health Science Center in San Antonio. He is also the Director of the Graduate Programme in Radiological Science and the Chief of the MRI Division for the Research Imaging Institute at UTSHCSA. He has served in leadership positions on boards and committees for various societies, including AAPM, CAMPEP, ACR, ABMP and ACPM. Dr. Clarke was one of the first generation of MRI scientists to use the technology for investigating biomedical problems. Early on, he developed imaging technologies and spectroscopic methods to study head trauma and coronary artery disease. He has received research grants from the National Institutes of Health and American Heart Association. His current research includes evaluating skeletal muscle metabolism in diabetes and measuring impaired cardiac function due to perinatal stresses using magnetic resonance. As Leader of the Imaging Core Research Laboratory at the Southwest National Primate Center, Dr. Clarke also provides technical support to colleagues who seek to develop practical image acquisition and analysis methods for their research programs. "There are very few problem-and-solution books available for Medical Physics courses and university teachers often have to hunt through several books to find suitable exercises to give to their students for practice or for assessment purposes – and often end up writing such items themselves - which is time consuming. Problems and Solution in Medical Physics - Diagnostic Imaging Physics by Kwan Hoong Ng, Jeannie Hsiu Ding Wong, Geoffrey D. Clarke therefore fills an important void in Medical Physics education which many university teachers will very much appreciate. The book is very well-structured with chapters following the syllabus structure of established diagnostic imaging physics modules at most universities. The layout of the problems and solutions makes it easy for students to follow and makes the book an excellent resource for students to consolidate concepts learned during lectures and for exam revision. The answers and solutions to the problems and questions indicate the expected level of detail when responding to examination questions which will also help students learn to be succinct in their answers. The authors avoid complex or ambiguous language making the book very much suitable for an international audience."—Prof. Carmel J. Caruana, PhD, FIPeM is Head Medical Physics Department, University of Malta, former Chair of the Education and Training Committee of the European Federation of Organizations for Medical Physics and member of the Accreditation Committee of the International Medical Physics Certification Board DOI link for Problems and Solutions in Medical PhysicsProblems and Solutions in Medical Physics book LinkedIn emplea cookies para mejorar la funcionalidad y el rendimiento de nuestro sitio web, así como para ofrecer publicidad relevante. Si continúas navegando por ese sitio web, aceptas el uso de cookies. Consulta nuestras Condiciones de uso y nuestra Política de privacidad para más información. LinkedIn emplea cookies para mejorar la funcionalidad y el rendimiento de nuestro sitio web, así como para ofrecer publicidad relevante. Si continúas navegando por ese sitio web, aceptas el uso de cookies. Consulta nuestra Política de privacidad y nuestras Condiciones de uso para más información.

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