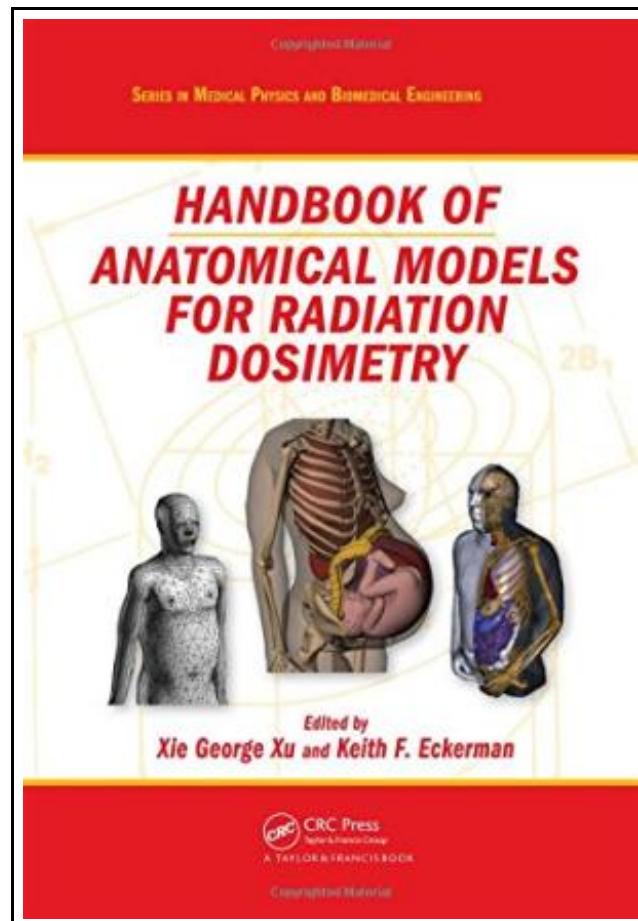


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Taylor Francis Inc, United States, 2009. Hardback. Book Condition: New. 230 x 154 mm. Language: English . Brand New Book. Over the past few decades, the radiological science community has developed and applied numerous models of the human body for radiation protection, diagnostic imaging, and nuclear medicine therapy. The Handbook of Anatomical Models for Radiation Dosimetry provides a comprehensive review of the development and application of these computational models, known as phantoms. An ambitious and unparalleled project, this pioneering work is the result of several years of planning and preparation involving 64 authors from across the world. It brings together recommendations and information sanctioned by the International Commission on Radiological Protection (ICRP) and documents 40 years of history and the progress of those involved with cutting-edge work with Monte Carlo Codes and radiation protection dosimetry. This volume was in part spurred on by the ICRP's key decision to adopt voxelized computational phantoms as standards for radiation protection purposes. It is an invaluable reference for those working in that area as well as those employing or developing anatomical models for a number of clinical applications. Assembling the work of nearly all major phantom developers around the world, this volume examines: * The history of the research and development in computational phantoms * Detailed accounts for each of the well-known phantoms, including the MIRD-5, GSF Voxel Family Phantoms, NCAT, UF Hybrid Pediatric Phantoms, VIP-Man, and the latest ICRP Reference Phantoms * Physical phantoms for experimental radiation dosimetry * The smallest voxel size (0.2 mm), phantoms developed from the Chinese Visible Human Project * Applications for radiation protection dosimetry involving environmental, nuclear power plant, and internal contamination exposures * Medical applications, including nuclear medicine therapy, CT examinations, x-ray radiological image optimization, nuclear medicine imaging, external photon and proton treatments, and management...

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