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[Computed Tomography: Principles, Design, Artifacts and Recent Advances 4th Edition](#)

"Computed Tomography: Principles, Design, Artifacts and Recent Advances, 4th Edition," authored by Chris A. H. van der Helm and published by CRC Press, is an essential resource for both professionals and students in the field of medical imaging. This comprehensive volume delves into the fundamental principles and design concepts that underlie computed tomography (CT), making it accessible to readers with varied backgrounds in the subject matter. The book explores the technological advancements in CT imaging, offering in-depth insights into the latest developments and their implications for clinical practice. From understanding the physics of X-ray generation and detection to tackling common artifacts encountered in CT scans, this edition provides a meticulous overview of key concepts that impact image quality and diagnostic accuracy. Each chapter systematically addresses the complexities of CT technology, supplemented by illustrations that enhance the reader's comprehension of critical mechanisms. Recent advances are also highlighted, showcasing innovations such as iterative reconstruction techniques and advanced imaging applications, ensuring that practitioners stay abreast of ongoing changes in the field. This updated edition is enriched by new case studies, practical examples, and exercises to further engage the reader and solidify their understanding. With an ISBN of 9780367336382, this book stands as an invaluable reference for radiologists, technologists, and anyone interested in the evolving landscape of computed tomography. Whether you're looking to refine your technical knowledge or seeking a foundational understanding of CT, this text is a must-have addition to your professional library.