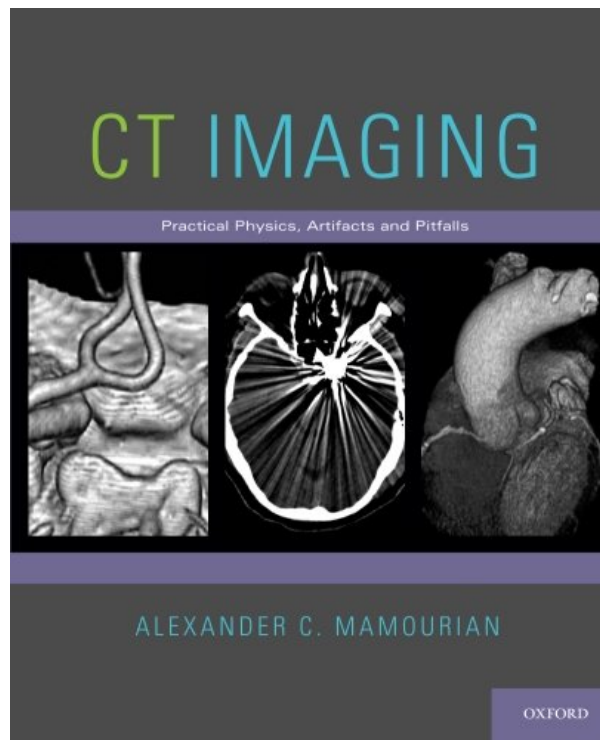
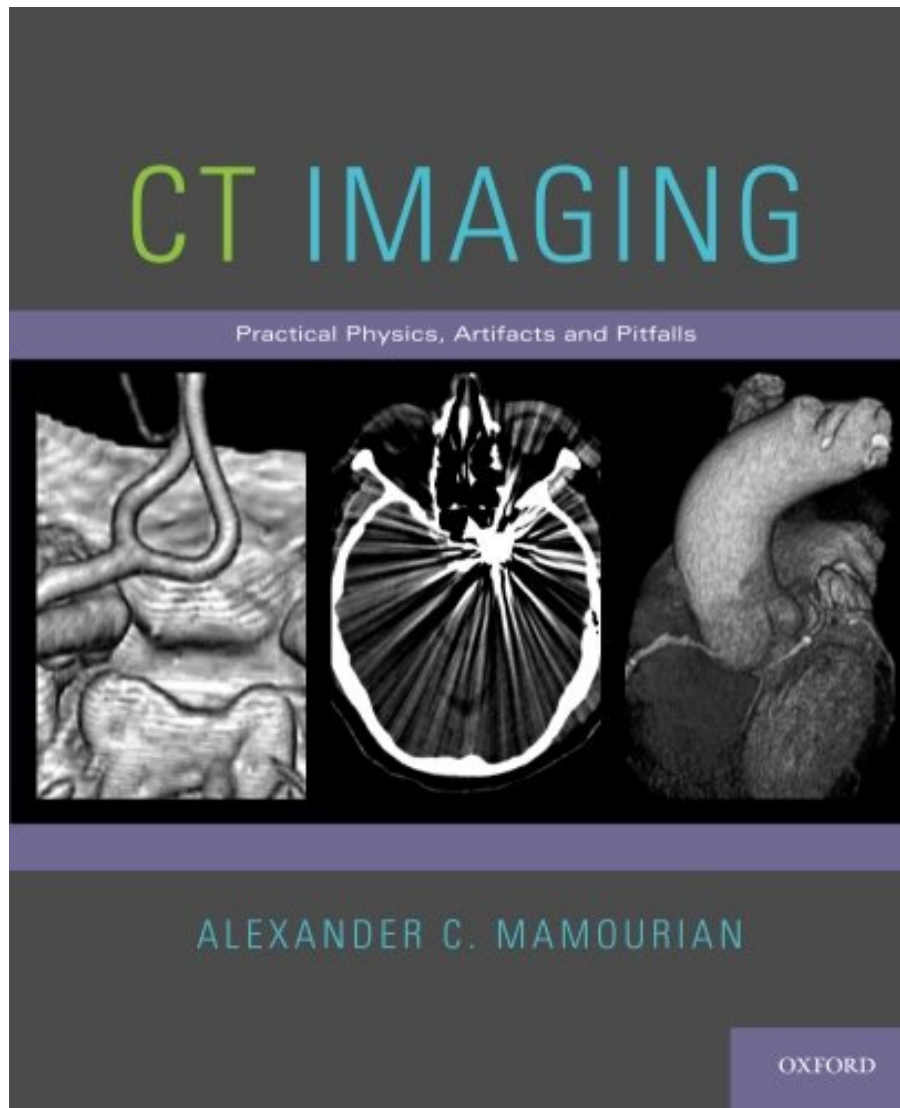


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About the Author

The author, Alex Mamourian MD, began his radiology training over thirty years ago and just when CT was first arriving in radiology departments. His radiology training included a fellowship in MR imaging at the University of Pennsylvania and another in neuroradiology at the Barrow Neurologic Institute. He is currently on faculty at the University of Pennsylvania in the department of Radiology. The focus of his career has been on radiology education and cross sectional imaging with both MR and CT.

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CT imaging has become a mainstay of medical imaging. After 30 years this is a mature technology but the accumulation of innovations over the past decades have given it extraordinary capabilities and new applications continue to emerge. In this book Alex Mamourian uses early CT technology to explain the fundamentals of CT imaging and then builds on that base to explain how innovations such as slip-ring and multidetector arrays allow for rapid, high resolution imaging. This book covers complex applications such as CT cardiac imaging and dual-source dual-energy CT scanning as well as the pitfalls and artifacts that will be encountered in clinical practice. The book also includes chapters on the language of radiation dose and strategies for dose reduction that are essential for optimal CT imaging and patient safety.

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By pejman j maralani

I read this book as a radiology fellow and I wished this had existed during my residency years. Textbooks in imaging physics are usually too easy for radiologists or literally incomprehensible for people who don't have extensive high-level math and physics background (like me). This book is for radiologists/ radiology trainees and deals with everyday physics that we may not even be aware of. The level of physics is tailored for this audience. It addresses several technical issues and CT artifacts the knowledge of which significantly optimizes and improves daily clinical workflow and ultimately benefits patient care. In a teaching position now, I recommend this book to all radiology trainees every single day.

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By A. K.

I'm currently studying for the ABR's Core Exam, and this book is the perfect review for CT Physics. It is highly applicable to clinical radiology, unlike many of the other RSNA et. al physics sources that are out there. The presentation style, using cases and multiple choice questions, to outline key concepts in practical CT imaging, is spot on with how the ABR is beginning to test residents in physics. Additionally, the case explanations are easy to understand no matter your understanding of basic physics. While it is certainly not a primary text for understanding the basics of radiological physics, I would recommend this to anyone studying for the boards as a supplemental review. You can get through all the cases in a day or two, and, based on my experience with the Core Pilot exam, the multiple choice questions are EXTREMELY relevant. Now, if only he would make one for ultrasound...

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Excellent book -- highly recommended.

By 987654321

This is an excellent book -- very clinically relevant and easy to read. I recommend that first-year residents read this book prior to taking solo call. I found it amazing how many of the cases I actually encountered overnight. I certainly would not have struggled with some of the cases if I read this book prior to taking call myself.

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