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- Elsevier Computed Tomography Manual for Diagnostic Imaging Technicians, 2nd Edition

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# Computed Tomography Manual for Diagnostic Imaging Technicians

2nd Edition by Joaquín Costa Subias and Juan Alfonso Soria Jerez

# **NTRODUCTION**

This manual, the second edition of a comprehensive didactic work, serves as a fundamental reference for both students and professionals in the field of diagnostic imaging. It is designed to provide a thorough understanding of Computed Tomography (CT) principles and applications.

Students will gain familiarity with the basic principles of physics and instrumentation relevant to CT, alongside the development of functional techniques, imaging sequences, the use of contrast media, and essential patient care protocols. Professionals will find this manual invaluable as a refresher and an updated guide, incorporating the latest technological advancements and their practical applications in clinical settings.

The content has been meticulously prepared by specialized technical and clinical educators and professionals, ensuring its pedagogical effectiveness and high quality. This edition includes carefully reviewed and updated chapters, featuring new and improved images to enhance learning.

# How to Use This Manual

To maximize your learning experience with this manual, consider the following guidelines:

- **Chapter Structure:** Each chapter is designed to build upon previous knowledge. It is recommended to read chapters sequentially to grasp foundational concepts before moving to more advanced topics.
- Self-Assessment Questions: Utilize the self-assessment questions provided at the end of each chapter to test your understanding. Solutions are available at the end of the book.
- **Practical Cases:** Engage with the practical cases to apply theoretical knowledge to real-world scenarios. Solutions are provided for verification.
- Glossary: Refer to the comprehensive glossary of specialized terms at the end of the book for definitions and clarifications.

# NAVIGATING THE CONTENT

Effective navigation of this manual will enhance your learning and reference capabilities:

- 1. **Sequential Reading:** For initial learning, proceed through the chapters in order to establish a strong conceptual foundation.
- 2. **Targeted Reference:** For specific information, use the detailed chapter headings and subheadings to quickly locate relevant sections.
- 3. **Image Analysis:** Pay close attention to the numerous images and diagrams, which are integral to understanding complex anatomical structures and CT techniques.
- 4. **Review and Reinforce:** Regularly revisit key sections and utilize the self-assessment tools to reinforce your knowledge and identify areas requiring further study.

# CARE AND PRESERVATION

To ensure the longevity and usability of your manual, please follow these care instructions:

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- Use bookmarks instead of folding pages to mark your place.
- Keep the book away from liquids and food to prevent stains and damage.

# TROUBLESHOOTING AND SUPPORT

Should you encounter difficulties in understanding specific concepts or require further clarification, consider the following:

- Re-read Sections: Often, re-reading a challenging section can provide new insights.
- Consult Glossary: Use the glossary to clarify unfamiliar terminology.
- Academic Resources: For persistent difficulties, consult additional academic resources or seek guidance from instructors or experienced professionals.

For inquiries regarding the publication or content, please contact the publisher, Elsevier.

# PRODUCT SPECIFICATIONS

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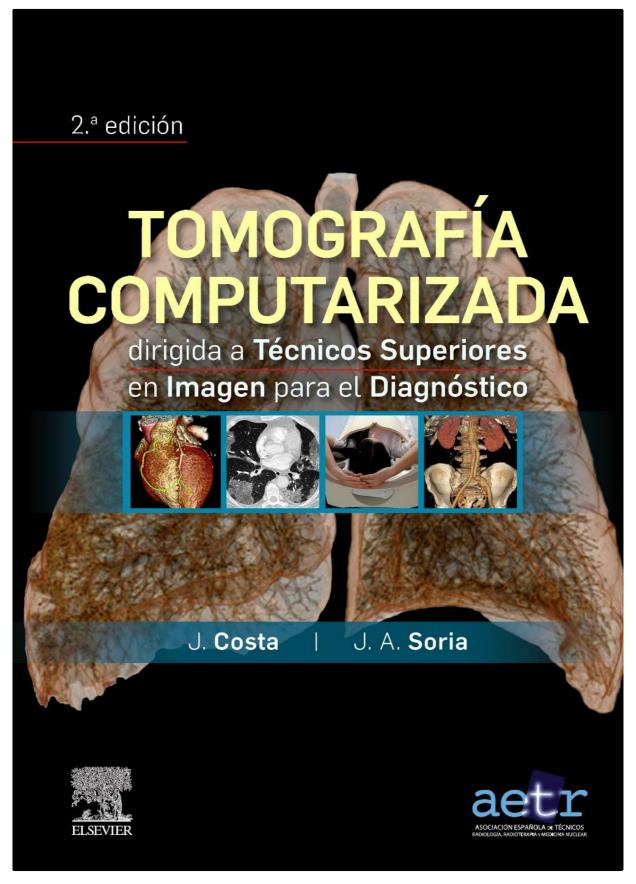


Image: Front cover of the 'Computed Tomography Manual for Diagnostic Imaging Technicians, 2nd Edition'. The cover features the title prominently, authors' names (J. Costa | J. A. Soria), and several medical imaging scans, including a 3D heart reconstruction, a lung CT scan, a patient undergoing a scan, and a spinal CT scan. The Elsevier and AETR logos are visible at the bottom.

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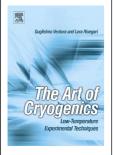
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