



# Basics of PET Imaging: Physics, Chemistry, and Regulations

By Gopal B. Saha

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This reference on the basics of PET and PET/CT imaging has been revised with concise chapters on PET fundamentals. The chapters include pertinent basic science plus equations along with sample problems and practice questions.

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### Editorial Review

#### Review

From the reviews: "Gives a clear and concise overview of basic physics and PET instrumentation, the theory of image processing and attenuation correction, scanner performance and testing, cyclotron production and synthesis of PET radiopharmaceuticals . . . . These subjects are not often covered in a single volume and make the book useful . . . up to date as possible in a rapidly evolving field . . . . The question and answer sections at the end of each chapter would be an aid in self-learning." (M J Myers, RAD Magazine, July, 2005) "This book presents the fundamentals of PET imaging in a very practical and concise, but also exhaustive way. . . . The book is very informative and represents a helpful reference text for nuclear medicine technologists, nuclear medicine residents and nuclear medicine physicians, and, given its clarity and simplicity, for all those willing to familiarize themselves with the fundamentals of PET imaging." (M. C. Gilardi, European Journal of Nuclear Medicine and Molecular Imaging, Vol. 33 (1), 2006) "This is an up-to-date short manual that reviews the fundamentals of PET imaging. The chapters are sufficiently comprehensive to make the topic easily understandable . . . . The text is concise and accompanied by tables, appendixes . . . making the book a valuable reference . . . . a self-evaluation section is available with a set of short questions that helps the reader to assess the sufficiency of knowledge gained. Residents taking board examinations would particularly benefit . . . . Overall, this is an excellent short manual . . ." (A. Manrique, Surgical and Radiologic Anatomy, Vol. 27 (4), 2005) "Dr. Gopal B. Saha has written a clear and concise primer on PET. This text would be excellent for technologists, residents, or physicians who want to become familiar with the basics of PET and would also be an ideal reference for anyone preparing for accreditation examinations. . . . Several photographs, diagrams, and tables further each discussion. . . . I found this book to be of great value both in content and in price." (Colleen M. Nall, Journal of Nuclear Medicine Technology, Vol. 34 (1), 2006)

#### From the Back Cover

This revised edition of Basics of PET Imaging presents an unparalleled text on the basics of PET imaging technology. Distinguished author, Dr. Gopal B. Saha, has updated his previous bestselling work with concise chapters on PET fundamentals, including:

- Basic physics
- Instrumentation and data acquisition
- Production of PET radionuclides
- Performance characteristics of PET scanners
- Regulatory and reimbursement issues

To maximize understanding, and to help technologists and residents prepare for board exams, chapters include pertinent basic science and equations along with sample problems and practice questions. The remarkable combination of Dr. Saha's brevity and clarity of content once again makes this edition an ideal reference book for nuclear medicine professionals interested in the basics of PET imaging.

#### About the Author

Saha-The Cleveland Clinic Foundation, Cleveland, OH

## Users Review

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#### William Gannaway:

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