



Physics in Nuclear Medicine, 3e

Simon R. Cherry, James Sorenson, Michael Phelps

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Experts in their fields provide up-to-date, comprehensive information on the physics underlying modern nuclear medicine and imaging using radioactively labeled tracers. They examine every aspect of the field-- from basic atomic physics through radioactivity, isotope production, interaction of radiation with matter, radiation detection, and imaging systems. Examples are presented with solutions worked out in step-by-step detail, illustrating important concepts and calculations.

- Features a brand-new author, Dr. Simon Cherry, who contributes his cutting-edge knowledge in nuclear medicine instrumentation.
- Presents a new introductory chapter, "What is Nuclear Medicine."
- Revises and updates all chapters and appendices.
- Discusses the hottest topics in the field, including isotope production and tracer synthesis · image quality in nuclear medicine · tomographic reconstruction in nuclear medicine · SPECT · PET · computers in nuclear medicine · and more.
- Explains the analytic equations that describe the physics involved and illustrates them with graphs to make the material accessible to the non-math expert.
- Provides more advanced mathematics and concepts in appendices.
- Includes many new illustrations and examples throughout.
- Reorganizes several chapters, providing a more logical flow of information.

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