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Squire's Fundamentals of Radiology: Sixth Edition

By Robert A. Novelline



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In the past five years, the development of new imaging technologies that make possible faster and more accurate diagnoses has significantly improved the imaging of disease and injury. This new edition of *Squire's Fundamentals of Radiology* describes and illustrates these new techniques to prepare medical students and other radiology learners to provide the most optimal and up-to-date imaging management for their patients. Not only are new diagnostic techniques outlined, such as the multidetector computed tomography diagnosis of pulmonary embolism and the diffusion-weighted magnetic-resonance imaging of stroke, but hundreds of new diagnostic images have been included to illustrate the radiological characteristics of common diseases with state-of-the-art computed radiography, ultrasound, multidetector computed tomography, and magnetic-resonance images. The text has been completely reviewed and updated to present the latest and best strategies in diagnostic imaging. New interventional radiology procedures have been added, including vertebroplasty, a percutaneous injection treatment of painful spinal compression fractures; uterine artery embolization, a surgical alternative to hysterectomy in women with painful or bleeding uterine fibroids; and radiofrequency ablation, a percutaneous technique for treating unresectable tumors in the liver and other organs with probes that superheat and thus destroy cancer cells. A new chapter on advances in diagnostic imaging describes many cutting-edge imaging technologies, such as three-dimensional and digital imaging, functional magnetic-resonance imaging, PET-CT (positron emission tomography combined with computed tomography), cardiac calcium CT scoring, multidetector gated cardiac CT, and molecular imaging.



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Editorial Review

Review

[Review of the previous edition] As a result of wide popularity, this excellent textbook reaches its fifth edition. The book appears to have been and to be the 'vademecum' of thousands of medical students, but its content is also devoted to doctors of sciences other than radiology, who use imaging as an essential tool for diagnostic workup of patients. The 25 years' experience of the textbook can clearly be recognized through its 20 chapters covering all fields of diagnostic imaging. The significant advances in imaging technology have brought a great number of new diagnostic images to this edition and new subjects, such as interventional radiology, have been included. Another important new feature of the book is body anatomy, explained either by plain films or by cross-sectional images. All diagnostic problems are presented in a very practical and essential way, tailored to students who will certainly be doctors but may not become radiologists. The reasoning of the author as a non-radiologist but with the radiologist's eyes is the most captivating feature of the textbook. This aspect can only be explained by Squire's and then Novelline's great experience in teaching medical students... The quality of images and captions is excellent, mainly from the teaching point of view. In fact, I was unable to find any misleading image or caption. Although the book is primarily devoted to medical students, its characteristics make it suitable also for first-/second-year residents in radiology. The book is definitely to be recommended to all doctors willing to know more about modern diagnostic imaging. Its size and reasonable price make this volume highly cost-effective. (A. Chiesa *European Radiology*)

[Review of the previous edition] This is the fifth edition of a text...written as an introduction to radiology for medical students. In 1964 Lucy Frank Squire authored the first edition, which became a standard for education of medical students. Squire recently passed away, but her teaching enthusiasm and spirit are maintained in eloquent fashion by Novelline, her colleague and friend. Without changing its purpose, the text has been rewritten considerably and is nearly doubled in size. New chapters in anatomy and subspecialty areas are included. New to this edition are chapters emphasizing primary-care areas, including women's imaging, men's imaging, pediatric radiology, and AIDS. This edition also contains photographs of patients undergoing exams in radiology suites and discussions of the patients' experiences in the department. (*Booklist*)

Five stars! Dr. Novelline has done an incredible job, taking an excellent text and improving it. [He] has kept the best parts of the previous editions, adding and updating to create a new incredible educational tool for a reasonable price that will stand the test of time. This text belongs in the personal library of every medical student. (Kathleen A. Murray, M.D., Department of Radiology, University of Utah School of Medicine)

[Review of a previous edition] I recommend this book as the definitive introductory text for medical students in their clinical years and to the course leaders of required or elective undergraduate courses in diagnostic radiology. (Joseph Whitely, M.D. *JAMA: The Journal of the American Medical Association*)

About the Author

Robert A. Novelline, M.D., is Professor of Radiology, Harvard Medical School. He is also Director, Emergency Radiology, and Director, Undergraduate Radiology Education, Massachusetts General Hospital.

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