



# Intraoperative Imaging and Image-Guided Therapy

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Image-guided therapy (IGT) uses imaging to improve the localization and targeting of diseased tissue and to monitor and control treatments. During the past decade, image-guided surgeries and image-guided minimally invasive interventions have emerged as advances that can be used in place of traditional invasive approaches. Advanced imaging technologies such as magnetic resonance imaging (MRI), computed tomography (CT), and positron emission tomography (PET) entered into operating rooms and interventional suites to complement already-available routine imaging devices like X-ray and ultrasound. At the same time, navigational tools, computer-assisted surgery devices, and image-guided robots also became part of the revolution in interventional radiology suites and the operating room.

*Intraoperative Imaging and Image-Guided Therapy* explores the fundamental, technical, and clinical aspects of state-of-the-art image-guided therapies. It presents the basic concepts of image guidance, the technologies involved in therapy delivery, and the special requirements for the design and construction of image-guided operating rooms and interventional suites. It also covers future developments such as molecular imaging-guided surgeries and novel innovative therapies like MRI-guided focused ultrasound surgery.

IGT is a multidisciplinary and multimodality field in which teams of physicians, physicists, engineers, and computer scientists collaborate in performing these interventions, an approach that is reflected in the organization of the book. Contributing authors include members of the National Center of Image-Guided Therapy program at Brigham and Women's Hospital and international leaders in the field of IGT.

The book includes coverage of these topics:

- Imaging methods, guidance technologies, and the therapy delivery systems currently used or in development.
- Clinical applications for IGT in various specialties such as neurosurgery, ear-nose-and-throat surgery, cardiovascular surgery, endoscopies, and orthopedic procedures.
- Review and comparison of the clinical uses for IGT with conventional methods in terms of invasiveness, effectiveness, and outcome.
- Requirements for the design and construction of image-guided operating rooms and interventional suites.

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