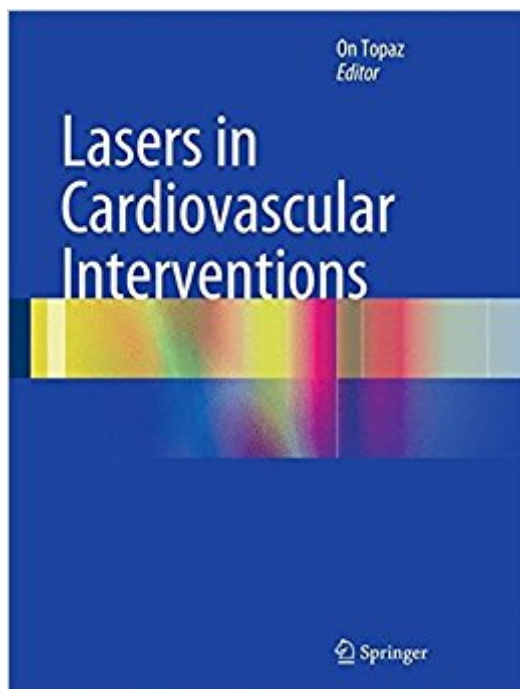


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# Lasers In Cardiovascular Interventions



## Synopsis

Since the introduction of laser devices to the medical sciences this technology has created great interest. Specifically, the laser's unique physical properties and precise bio-tissue interactions render this versatile source of biologic energy an attractive tool for multiple therapeutic purposes in cardiovascular medicine. Over the course of the last 2 decades the utilization of laser technology has become an important component for the management of patients with complex cardiovascular diseases. During this time period, cutting edge laser technology including a variety of wave length generators, newly designed catheters, and a selection of advanced optic fibers have been introduced and applied in the cardiovascular circulation. Improved lasing techniques in the cardiac catheterization suites and operation rooms have been implemented for treatment of ischemic coronary syndromes, peripheral arterial occlusive disease and other atherosclerotic thrombotic conditions. Moreover, during this 20 year time frame, several multicenter and single center clinical studies have been published focusing on the role and utilization of lasers in coronary and peripheral revascularization. And within the rapidly expanding field of interventional cardiac electrophysiology, laser technology has recently revolutionized the management of fractured, abandoned and malfunctioning leads of cardiac pacemakers and automatic defibrillators. Consequently, replacing a notoriously cumbersome and high risk open heart surgery with safe and markedly efficient percutaneous laser based extraction. This textbook will provide the most authoritative, comprehensive and contemporary information covering technological progress, clinical experience and pertinent aspects of laser applications in cardiovascular medicine. It will be of interest to cardiologists, vascular surgeons and interventional radiologist as well as medical students, scientists, biomedical engineering students and graduates.

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â œlt is written for the broad audience of cardiologists, electrophysiologists, cardiac and vascular surgeons, interventional radiologists and cardiologists interested in therapeutic use of laser technologies, medical students, nurses, and fellows, as well as students and graduate students interested in laser technology and biomedical engineering. â | this one is the most up-to-date and comprehensive discussion of current laser technology and applications in the cardiovascular arena. It is a useful addition to the libraries of healthcare professionals â | .â • (Neel A. Mansukhani, Doodyâ™s Book Reviews, February, 2016)

This book provides the most authoritative, comprehensive and contemporary guide to technological progresses and clinical experiences of laser applications in cardiovascular medicine. Since the introduction of laser devices to the medical sciences, this technology has generated great interest. Specifically, the laserâ™s unique physical properties and precise bio-tissue interactions render this versatile source of biologic energy an attractive tool for multiple therapeutic purposes in cardiovascular medicine. Over the course of the last two decades the utilization of laser technology has thus become an important component for the management of patients with complex cardiovascular diseases. Lasers in Cardiovascular Interventions is a valuable resource to this subject providing thorough yet practical information for cardiologists, vascular surgeons and interventional radiologists, as well as medical students, scientists, biomedical engineering students and graduates.â ‹

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