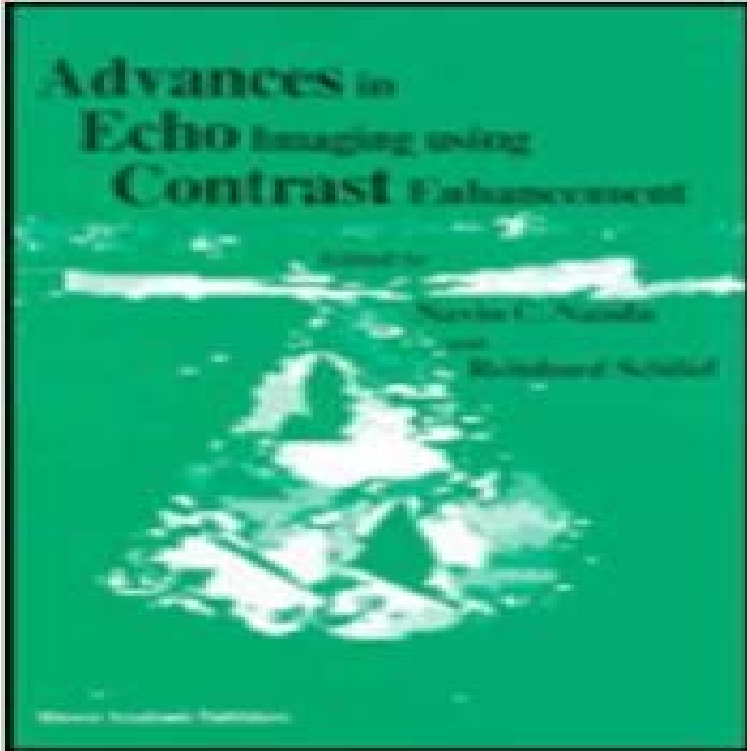


Advances in Echo Imaging Using Contrast Enhancement



This book will familiarize the reader with recent advances in echo imaging technology with special emphasis on echo enhancing agents. Several important strides have been made in this field during the past few years, especially in the contrast enhancement of conventional and color Doppler images. The book begins with chapters on the history of contrast echocardiography, the principles of contrast echo and descriptions of new contrast agents capable of transpulmonary passage following intravenous injection. Safety issues in contrast echocardiography are also discussed. The second section of the book deals with clinical uses of echo contrast agents. Their usefulness in the identification of cardiac structures and assessment of pathological lesions using both transthoracic and transesophageal echocardiography are fully discussed. Technical and practical considerations in the use of various contrast agents are also described. The use of contrast echo in the identification of cardiac sources of embolism as well as possible mechanisms and clinical significance of spontaneous contrast echoes are also covered. Six chapters fully discuss the basics of contrast enhancement of conventional and color Doppler images and its clinical utility in the noninvasive assessment of pulmonary artery pressure, regurgitant and stenotic lesions and in the delineation of coronary arteries. Another chapter describes the non-cardiac applications of the echo contrast enhancement technique. The final section of the book investigates the role of echo contrast enhancement in quantitative cardiovascular analysis.

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