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Altri autori (Persone)	MarwickThomas H YuCheuk-Man SunJingping
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Nota di contenuto	Myocardial Imaging: Tissue Doppler and Speckle Tracking; Contents; Contributors; Foreword; Part 1 Methodology; 1 Technical principles of tissue velocity and strain imaging methods; 2 Principles and different techniques for speckle tracking; 3 Physiologic and magnetic resonance imaging validation of strain techniques; 4 Designation of tissue Doppler normal range; Part 2 Application to hemodynamic evaluation; 5 Assessment of filling pressure at rest; 6 Assessment of left ventricular filling pressure with stress; Part 3 Application in heart failure; 7 Assessment of systolic heart failure 8 Assessment of diastolic heart failure9 Assessment of dyssynchrony and its application; Part 4 Ischemic heart disease; 10 Experimental studies on myocardial ischemia and viability using tissue Doppler and deformation; 11 Assessment of viability; 12 Use of tissue velocity imaging during stress echocardiography; 13 Strain and strain rate

imaging in ischemia; Part 5 Noncoronary heart disease; 14 Tissue Doppler echocardiography in the assessment of hypertensive heart disease; 15 Using myocardial imaging to identify and manage subclinical heart disease in diabetes mellitus and obesity  
16 Constrictive pericarditis versus restrictive cardiomyopathy  
17 Use of myocardial imaging to identify and manage subclinical heart disease in thyroid and other endocrine diseases; 18 Myocardial imaging in valvular heart disease; 19 Use of myocardial imaging to identify and manage systemic diseases; 20 Tissue Doppler imaging and strain rate imaging to evaluate right ventricular function; Part 6 Coming developments and applications; 21 Atrial function; 22 Three-dimensional reconstruction of strain measurement and measurement of strain in three-dimensions; 23 Ventricular torsion  
24 Automated strain and strain rate  
25 Use of tissue characterization in relation to arterial function; 26 Future applications of speckle tracking echocardiography; Index

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## Sommario/riassunto

In recent years, echocardiography has evolved from a qualitative diagnostic tool into a complex and sophisticated technique that is able to provide accurate, quantitative information driving the management of most cardiac diseases. Despite the availability, affordability and scientific value of advanced echocardiography techniques such as Tissue Doppler Imaging (TDI) and Speckle Tracking, there has been a lack of accessible information about their use in real-life medical practice. This practical book is the first comprehensive resource with truly international authorship covering the th

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