Part I: Basic Determinants of Diastolic Function

1. *Molecular, Gene, and Cellular Mechanis*
2. *Pathophysiology of Heart Failure With a Preserved Ejection Fraction: Measurements and Mechanisms Causing Abnormal Diastolic Function*
3. *Role of the Pericardium in Diastolic Dysfunction*
4. *Left Atrial Function: Basic Physiology*
5. *Physical Determinants of Diastolic Flow*
6. *Ventricular–Arterial Interaction in Patients With Heart Failure and a Preserved Ejection Fraction*

Part II: Diagnosis of Heart Failure With Preserved Ejection Fraction

1. *General Principles, Clinical Definition, Epidemiology, and Pathophysiology*
2. *Invasive Hemodynamic Assessment in Heart Failure With Preserved Ejection Fraction*
3. *Two-Dimensional and Doppler Evaluation of Left Ventricular Filling, Including Pulmonary Venous Flow Velocity*
4. *Evaluation of Diastolic Function by Tissue Doppler, Strain, and Torsion Analysis*
5. *Color M-mode Doppler*
6. *Assessment of Left Atrial Size and Function*
7. *Evaluation of Intracardiac Filling Pressures*
8. *Evaluation of Right Ventricular Diastolic Function*
9. *Evaluation of Diastolic Function by Cardiac Magnetic Resonance Imaging*
10. *Evaluation of Diastolic Function by Radionuclide Techniques*
11. *Diastolic Echocardiographic Examination*
12. *Diastology Stress Test*
13. *ASE/EACVI Diastolic Guidelines: Strength and Limitations*

Part III: Cardiac Diseases With HFpEF

1. *Hypertension and Its Relation to Heart Failure With a Preserved Ejection Fraction*
2. *Valve Disease*

3. *Stage D Heart Failure With Preserved Ejection Fraction, Heart Transplantation, and Mechanical Circulatory Support*
4. *Primary Restrictive, Infiltrative, and Storage Cardiomyopathies*
5. *Coronary Artery Disease*
6. *Hypertrophic Cardiomyopathy*
7. *Pericardial Diseases: Constrictive Pericarditis and Pericardial Effusion*
8. *Diastolic Function in Children and in Children With Congenital Heart Disease*
9. *Diabetes Mellitus*

Part IV: Emerging Topics in HFpEF

1. *Global and Regional Systolic Function of the Left Ventricle*
2. *Chronotropic Incompetence and Pacing in HPEF Heart Failure with Preserved Ejection Fraction*
3. *Aging and Heart Failure With Preserved Ejection Fraction*
4. *Perioperative Assessment of Diastolic Function*
5. *Pulmonary Hypertension in Heart Failure With Preserved Ejection Fraction*

Part V: Treatment of HFpEF

1. *General Treatment of Heart Failure With Preserved Ejection Fraction and Randomized Trials*
2. *Echo-Based Approach to the Management of Heart Failure With Preserved Ejection Fraction*
3. *Future Therapies in HFpEF*

Part VI: Cases of Diastolic Heart Failure

1. *Cases of Diastolic Heart Failure*