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Autore	Pfeiffer Friedrich
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6. The Vibrations of a Flexible Link with a Lubricated Slider Joint
 7. References; Chapter 4: Solitons Chaos and Modal Interactions in Periodic Structures; 1. Introduction; 2. Experiment; 3. Numerical Model; 4. Forced Vibrations and Modal Interactions; 5. Impact Response; 6. Conclusions; 7. Acknowledgments; 8. References; Chapter 5: Analysis and Modeling of an Experimental Frictionally Excited Beam; 1. Introduction; 2. Experimental Setup; 3. Friction Measurement; 4. Displacement Measurement; 5. Dynamical Responses; 6. Proper Orthogonal Modes; 7. Mathematical Model
 8. Numerical Simulations and Validation
 9. Discussion and Elaboration; 10. Conclusions; 11. Acknowledgments; References; Chapter 6: Transient Waves in Linear Viscoelastic Media; Introduction; 1. Statement of the Problem by Laplace Transform; 2. The Structure of Wave Equations in the Space-Time Domain; 3. The Complex Index of Refraction: Dispersion and Attenuation; 4. The Signal Velocity and the Saddle-Point Approximation; 5. The Regular Wave-Front Expansion; 6. The Singular Wave-Front Expansion; Conclusions; Acknowledgments; References
 Chapter 7: Dynamic Stability and Nonlinear Parametric Vibrations of Rectangular Plates
 1. Introduction; 2. Theoretical Analysis; 3. Solution of the Temporal Equations of Motion; 4. Stationary Response; 5. Nonstationary Responses; 6. Results and Discussion; Acknowledgments; References; Chapter 8: Friction Modelling and Dynamic Computation; 1. Introduction; 2. Phenomenological Models; 3. Analysis of Systems of Several Rigid Bodies; References; Chapter 9: Damping through Use of Passive and Semi-Active Dry Friction Forces; 1. Introduction; 2. Passive Mechanisms; 3. Semi-Active Friction
 4. Conclusions

Sommario/riassunto

The dynamics of dissipative mechanical and structural systems is being investigated at various institutions and laboratories worldwide with ever-increasing sophistication of modeling, analysis and experiments. This book offers a collection of contributions from these research centers that represent the state-of-the-art in the study of friction oscillators. It provides the reader with the fruits of a team effort by leaders in this fascinating field. The present part II of this volume on Dynamics with Friction is a continuation of the previous part I, and is designed to help synthesize our curren
