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Nota di contenuto	Contents: Classical Nonlinear Dynamics and Chaos -- Quantum Chaos -- Wigner Distributions -- Other Semiclassical Theories -- Symplectic Geometry and Quantization -- Relativity, Quantum Mechanics, and Thermodynamics -- List of Participants.
Sommario/riassunto	The concept of phase space plays a decisive role in the study of the transition from classical to quantum physics. This is particularly the case in areas such as nonlinear dynamics and chaos, geometric quantization and the study of the various semi-classical theories, which are the setting of the present volume. Much of the content is devoted to the study of the Wigner distribution. This volume gives the first complete survey of the progress made by both mathematicians and physicists. It will serve as an excellent reference for further research.