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	Autore	TURKI, Abdel Magid
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Nota di contenuto	Cover -- Title Page -- Copyright Page -- Contents -- Preface -- Introduction -- Part 1. Theory -- Chapter 1. Kinetic Theory -- 1.1. The impossibility of an accurate approach -- 1.2. Boltzmann equation -- 1.3. Collision term -- 1.3.1. Absence of collisions: Vlasov equation -- 1.3.2. Bhatnagar-Gross-Krook relaxation model -- 1.3.3. Boltzmann collision integral -- 1.3.4. Fokker-Planck collision term -- 1.4. Steady state: Boltzmann distribution -- 1.5. Maxwell-Boltzmann distribution: properties -- 1.6. H-theorem -- 1.7. Paradoxes related to H-theorem -- 1.7.1. Loschmidt's paradox of irreversibility -- 1.7.2. Zermelo paradox -- Chapter 2. Hydrodynamic Approach -- 2.1. Fluid model: a heuristic approach -- 2.2. Macroscopic transport equation -- 2.3. Fluid model -- 2.4. Pressure tensor -- 2.4.1. Isotropic pressure -- 2.4.2. Anisotropic pressure -- 2.5. A deadlock in the fluid model: closure relationships -- 2.5.1. Zero pressure -- 2.5.2. Isothermal pressure -- 2.6. The collision effect -- Chapter 3. Quantum Models -- 3.1. Physical interest -- 3.2. Quantum hydrodynamic model -- 3.3. Quantum kinetic approach: Wigner-Moyal theory -- 3.3.1. Wigner distribution -- 3.3.2. Weyl transformation -- 3.3.3. Evolution of the Wigner distribution --

Chapter 4. General Relativity -- 4.1. Relativistic hydrodynamics -- 4.1.1. Conservation equations -- 4.1.2. Hydrodynamics in special relativity -- 4.1.3. Hydrodynamic model in general relativity -- 4.2. Relativistic kinetic theory -- 4.2.1. Basic concepts -- 4.2.2. Formulation of kinetic theory -- 4.2.3. Collision integral -- 4.2.4. Boltzmann equation in general relativity -- 4.2.5. H-theorem -- 4.2.6. Equilibrium state: Jüttner distribution -- Part 2. Applications -- Chapter 5. Plasmas -- 5.1. Electronic oscillations in classical plasmas: a hydrodynamic approach -- 5.2. Ion waves: hydrodynamic approach. 5.3. Classic plasmas: kinetic approach -- 5.4. Quantification of electronic oscillations: hydrodynamic and kinetic approaches -- 5.5. In a relativistic plasma: kinetic approach -- 5.6. Beyond the linear approach: the Korteweg-De Vries equation -- Chapter 6. Gravitational Systems -- 6.1. Jeans instability: hydrodynamic approach -- 6.2. Kinetic approach and collision effect -- 6.3. Jeans instability in the presence of dark matter -- 6.3.1. Kinetic approach -- 6.3.2. Hydrodynamic approach -- 6.4. Jeans instability: alternative theories -- Chapter 7. Bose-Einstein Condensates -- 7.1. Quantum hydrodynamic representation -- 7.2. Quantum kinetic representation -- 7.3. Kinetic approach to Bogoliubov oscillations -- Chapter 8. Cosmology and Dark Matter Models -- 8.1. Hydrodynamics of the Universe -- 8.1.1. Perturbation in a static Universe -- 8.1.2. Perturbations in an expanding Universe -- 8.2. Dark matter models -- 8.2.1. Hydrodynamic representation -- 8.2.2. Kinetic representation -- Appendix. Language of Relativity -- References -- Index -- EULA.

Sommario/riassunto

This book, 'Collective Phenomena in Plasmas and Elsewhere' by Kamel Ourabah, explores the complex behaviors and interactions within plasmas and other systems using kinetic and hydrodynamic approaches. It delves into theoretical frameworks such as the Boltzmann equation, collision terms, and the H-theorem, while examining fluid models and quantum models, including the Wigner-Moyal theory. The text further explores applications in plasmas, highlighting electronic oscillations and ion waves. The book is aimed at researchers and students in physics and engineering, providing insights into both classical and quantum models of collective behavior.
