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	Nota di contenuto	Contents; Preface; Notations and Conventions; Introduction; 1. The One-Particle Relativistic Distribution Function; 1.1 The One-Particle Relativistic Distribution Function; 1.1.1 The phase space "volume element"; 1.2 The Juttner-Synge Equilibrium Distribution; 1.2.1 Thermodynamics of the Juttner-Synge gas; 1.2.2 Thermal velocity; 1.2.3 Moments of the Juttner-Synge function; 1.2.4 Orthogonal polynomials; 1.2.5 Zeromass particles; 1.3 From the Microcanonical Distribution to the Juttner-Synge One; 1.4 Equilibrium Fluctuations; 1.5 One-Particle Liouville Theorem
		1.5.1 Relativistic Liouville equation from the Hamiltonian equations of motion1.5.2 Conditions for the Juttner-Synge functions to be an equilibrium; 1.6 The Relativistic Rotating Gas; 2. Relativistic Kinetic Theory and the BGK Equation; 2.1 Relativistic Hydrodynamics; 2.1.1 Sound velocity; 2.1.2 The Eckart approach; 2.1.3 The Landau-Lifschitz approach; 2.2 The Relaxation Time Approximation; 2.3 The Relativistic Kinetic Theory Approach to Hydrodynamics; 2.4 The Static Conductivity Tensor; 2.5 Approximation Methods for the Relativistic Boltzmann Equation and Other Kinetic Equations
		2.5.1 A simple Chapman-Enskog approximation2.6 Transport

Sommario/riassunto	This is one of the very few books focusing on relativistic statistical mechanics, and is written by a leading expert in this special field. It started from the notion of relativistic kinetic theory, half a century ago, exploding into relativistic statisti