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Fundamentals of Transport Phenomena in Combustion

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1 Università di Pisa Introduction to Transport Phenomena 1. Introduction. Convection and Diffusion. 2. The Convective Fluxes. 3. The Diffusive Fluxes. Constitutive equations. 4. Kinetic Theory.

Introduction to Transport Phenomena - unipi.it

Transport Phenomena and Kinetic Theory Applications to Gases, Semiconductors, Photons, and Biological Systems Carlo Cercignani Ester Gabetta Editors Birkhäuser Boston • Basel • Berlin Carlo Cercignani Dipartimento di Matematica Politecnico di Torino 32 Piazza Leonardo da Vinci 20133 Milano Italy

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Both Huang and Kardar treat kinetic theory and the Boltzmann equation before they move onto statistical mechanics. Much of Section 2 of these notes follows the path laid down in the these books. Reif ends with a much wider ranging discussion of kinetic theory, transport and stochastic processes. For more details on kinetic theory:

Kinetic Theory - DAMTP

1 Temperature Distributions with More Than One Independent Variable 1.1 The Microscopic Energy Balance The microscopic energy balance states that $\vec{E} \cdot \vec{C}^p @ T$

Transport Phenomena II - Tufts University

Phenomena Soto eak as ! scienti! y only quanti! a concepts excellent and concepts and di " ... 1.6 Transport

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