1. Record Nr. UNISALENTO991001564919707536 Italia: Commissione parlamentare d'inchiesta sul fenomeno della mafia Autore e sulle altre associazioni criminali similari **Titolo** Relazione sulla funzionalità degli uffici giudiziari : approvata dalla Commissione nella seduta dell' 8 aprile 1997. Comunicata alle Presidenze il 9 aprile 1997 / Commissione parlamentare d'inchiesta sul fenomeno della mafia e delle altre associazioni criminali similari Pubbl/distr/stampa [Roma]: Tip. del Senato, [1997] Descrizione fisica 15 p.; 30 cm. Disegni di legge e relazioni. Documenti / Senato della Repubblica, Collana Camera dei deputati, ; 13. legislatura Lingua di pubblicazione Italiano **Formato** Materiale a stampa Livello bibliografico Monografia In testa al front.: Senato della Repubblica, Camera dei deputati; 13. Note generali legislatura, doc. 23, n. 1

Record Nr. UNINA9910337882003321 Autore Garzó Vicente Titolo Granular Gaseous Flows: A Kinetic Theory Approach to Granular Gaseous Flows // by Vicente Garzó Pubbl/distr/stampa Cham:,: Springer International Publishing:,: Imprint: Springer,, 2019 **ISBN** 3-030-04444-0 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (419 pages) Collana Soft and Biological Matter, , 2213-1736 Disciplina 533.7 Soggetti Amorphous substances Complex fluids Mathematical physics Fluid mechanics Fluids **Physics** Soft and Granular Matter, Complex Fluids and Microfluidics Mathematical Applications in the Physical Sciences **Engineering Fluid Dynamics** Fluid- and Aerodynamics Numerical and Computational Physics, Simulation Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Kinetic theory of inelastic hard spheres -- Homogeneous cooling states Nota di contenuto (HCS) -- Navier-Stokes transport coefficients for simple granular gases -- Navier-Stokes transport coefficients for multicomponent granular gases -- Non-Newtonian steady states for granular gases -- Inelastic Maxwell models for granular gases -- Transport coefficients for granular gas-solid flows. This book addresses the study of the gaseous state of granular matter Sommario/riassunto in the conditions of rapid flow caused by a violent and sustained excitation. In this regime, grains only touch each other during collisions and hence, kinetic theory is a very useful tool to study granular flows. The main difference with respect to ordinary or

molecular fluids is that grains are macroscopic and so, their collisions are inelastic. Given the interest in the effects of collisional dissipation on granular media under rapid flow conditions, the emphasis of this book is on an idealized model (smooth inelastic hard spheres) that isolates this effect from other important properties of granular systems. In this simple model, the inelasticity of collisions is only accounted for by a (positive) constant coefficient of normal restitution. The author of this monograph uses a kinetic theory description (which can be considered as a mesoscopic description between statistical mechanics and hydrodynamics) to study granular flows from a microscopic point of view. In particular, the inelastic version of the Boltzmann and Enskog kinetic equations is the starting point of the analysis. Conventional methods such as Chapman-Enskog expansion, Grad's moment method and/or kinetic models are generalized to dissipative systems to get the forms of the transport coefficients and hydrodynamics. The knowledge of granular hydrodynamics opens up the possibility of understanding interesting problems such as the spontaneous formation of density clusters and velocity vortices in freely cooling flows and/or the lack of energy equipartition in granular mixtures. Some of the topics covered in this monograph include: Navier-Stokes transport coefficients for granular gases at moderate densities Long-wavelength instability in freely cooling flows Non-Newtonian transport properties in granular shear flows Energy nonequipartition in freely cooling granular mixtures Diffusion in strongly sheared granular mixtures Exact solutions to the Boltzmann equation for inelastic Maxwell models.