

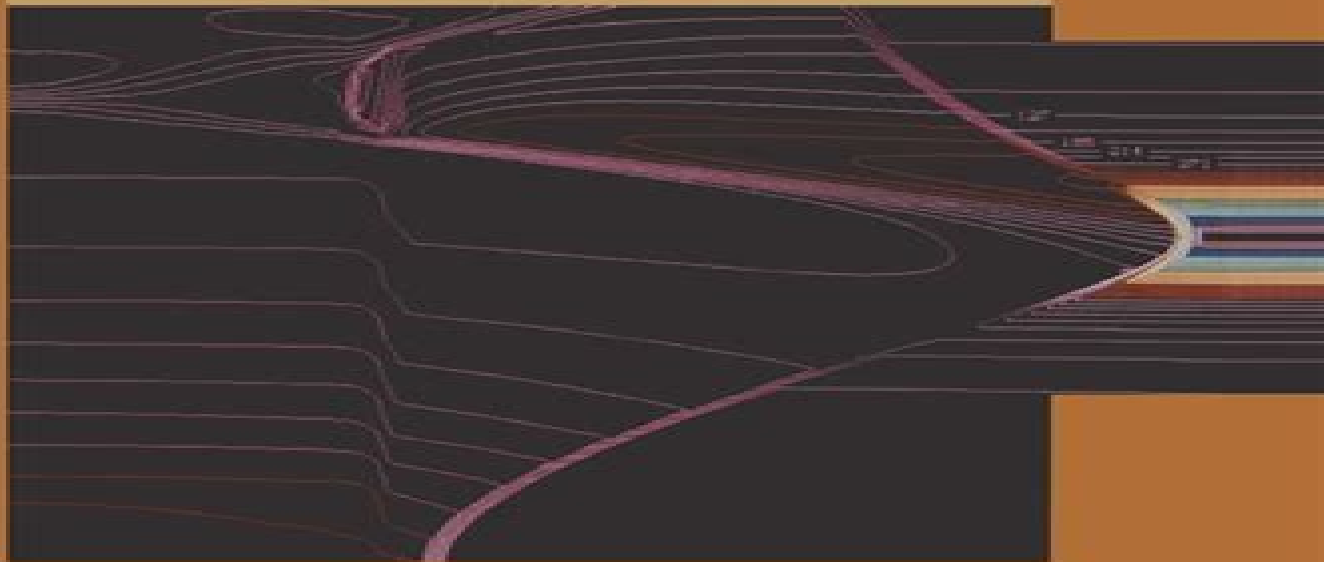
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Shock Waves At Marseille

Raymond Brun, Lucien Z. Dumitrescu



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The characteristic times of these processes have the same order of magnitude as aerodynamic characteristic times so that these reactive media are generally in thermodynamic and chemical non equilibrium This book presents a general introductory study of these media In the first part their fundamental statistical aspects are described starting from their discrete structure and taking into account the interactions between elementary particles transport phenomena relaxation and kinetics as well as their coupling are analysed and illustrated by many examples The second part deals with the macroscopic re entry bodies Finally the experimental aspects of these flows their simulations in shock tubes and shock tunnels are described as well as their application particularly in the aerospace domain This book is intended for students that have acquired a basic knowledge in thermodynamics statistical physics and fluid mechanics It will also be of interest to engineers in research and industry in particular in the aerospace industry and more generally to all researchers trying to simulate and calculate complex reactive flows

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