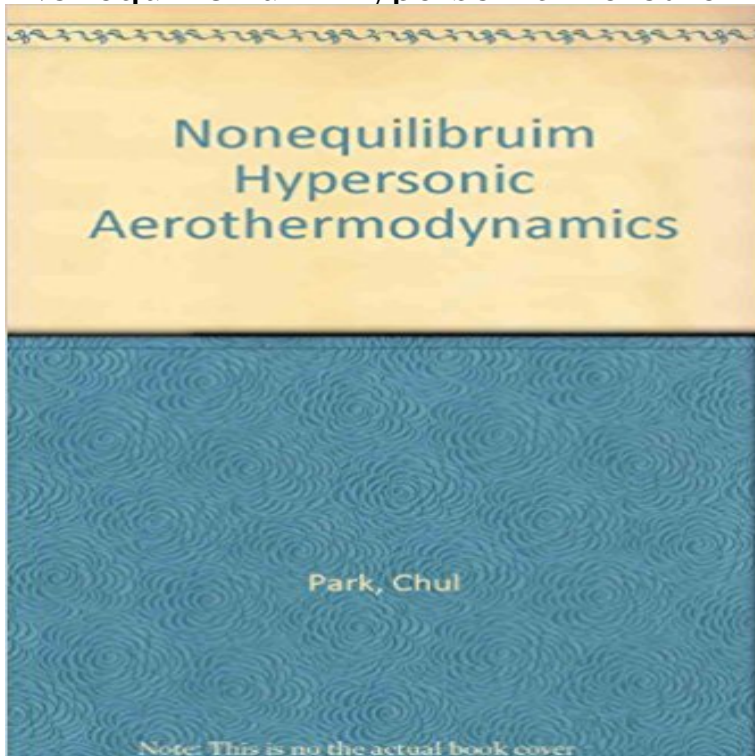


# Nonequilibrium Hypersonic Aerothermodynamics



Describes the interaction between the fluid flow and the high temperature phenomena experienced in the hypersonic regime. Presents the principles of aerothermodynamics in nonequilibrium hypersonic flow regimes, covering theory, application and surface phenomena. Chapters 1 to 5 explain how to develop computational fluid dynamics (CFD) techniques for computing nonequilibrium, chemically reacting flows in the hypersonic regime. Chapters 6 to 8 examine the important physical phenomena that occur in hypersonic flows. The final chapter is devoted to the nonequilibrium kinetics at solid surfaces, which is useful in addressing the problems of the nonequilibrium gas-surface interactions that arise in hypersonic flight.

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