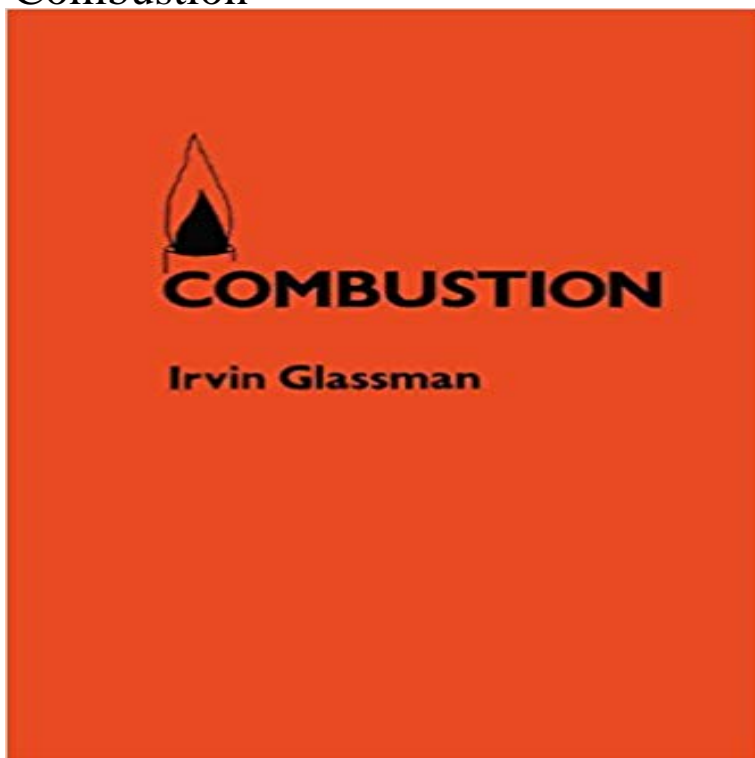


Combustion



Combustion deals with the underlying principles of combustion and covers topics ranging from chemical thermodynamics and chemical kinetics to detonation, oxidation characteristics of fuels, and flame phenomena in premixed combustible gases. Diffusion flames, ignition, and coal combustion are also discussed. This book consists of nine chapters and begins by introducing the reader to heats of reaction and formation, free energy, the equilibrium constant, and flame temperature calculations. The next chapter explores the rates of reactions and their temperature dependency; simultaneous interdependent and chain reactions; pseudo-first-order reactions; and pressure effect in fractional conversion. The explosion limits and oxidation characteristics of fuels such as hydrogen, carbon monoxide, and hydrocarbons are also considered. The remaining chapters look at the laminar flame speed and stability limits of laminar flames, along with deflagration and detonation, burning in convective atmospheres, and the theory of thermal ignition. The final chapter is devoted to the burning of coal. This monograph will be a useful resource for students and teachers of physics.

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