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Dynamics of Flames and Reactive Systems and Dynamics of Shock Waves, Explosions, and Detonations

J. R. Bowen, N. Manson, A. K. Oppenheim, and R. I. Soloukhin, editors

The dynamics of explosions is concerned principally with the interrelationship between the rate processes of energy deposition in a compressible medium and its concurrent nonsteady flow as it occurs typically in explosion phenomena. Dynamics of reactive systems is a broader term referring to the processes of coupling between the dynamics of fluid flow and molecular transformations in reactive media occurring in any combustion system. *Dynamics of Flames and Reactive Systems* covers premixed flames, diffusion flames, turbulent combustion, constant volume combustion, spray combustion nonequilibrium flows, and combustion diagnostics. *Dynamics of Shock Waves, Explosions and Detonations* covers detonations in gaseous mixtures, detonations in two-phase systems, condensed explosives, explosions and interactions.

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