

D.A. FRANK-KAMENETSKII

Diffusion and Heat Exchange in Chemical Kinetics



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**Lawrence K. Wang, Norman C.
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Diffusion and Heat Exchange in Chemical Kinetics David Albertovich Frank-Kamenetskii, 2015-12-08 Frank Kamenetskii a leader in Russian science was the first to define conditions for two stable operating regimes in chemical reactions one controlled by chemical reactions the other by diffusion processes In this book he treats mathematically the subjects of reaction ignition quenching and periodic processes in chemical kinetics as found in flames combustion of solids and other chemical reactions The book was translated from the Russian by the late N Thou and edited by R Wilhelm Originally published in 1955 The Princeton Legacy Library uses the latest print on demand technology to again make available previously out of print books from the distinguished backlist of Princeton University Press These editions preserve the original texts of these important books while presenting them in durable paperback and hardcover editions The goal of the Princeton Legacy Library is to vastly increase access to the rich scholarly heritage found in the thousands of books published by Princeton University Press since its founding in 1905

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Combustion is an old technology which at present provides about 90% of our worldwide energy support Combustion research in the past used fluid mechanics with global heat release by chemical reactions described with thermodynamics assuming infinitely fast reactions This approach was useful for stationary combustion processes but it is not sufficient for transient processes like ignition and quenching or for pollutant formation Yet pollutant formation during combustion of fossil fuels is a central topic and will continue to be so in the future This book provides a detailed and rigorous treatment of the coupling of chemical reactions and fluid flow Also combustion specific topics of chemistry and fluid mechanics are considered and tools described for the simulation of combustion processes The actual fourth edition presents a completely restructured book Mathematical Formulae and derivations as well as the space consuming reaction mechanisms have been replaced from the text to appendix A new chapter discusses the impact of combustion processes on the earth s atmosphere the chapter on auto ignition is extended to combustion in Otto and Diesel engines and the chapters on heterogeneous combustion and on soot formation appear heavily revised *Sixth International Microgravity Combustion Workshop*, 2001 [An Introduction to](#)

[Metallurgy, Second Edition](#) Sir Alan Cottrell, 2019-10-16 This classic textbook has been reprinted by The Institute of Materials to provide undergraduates with a broad overview of metallurgy from atomic theory thermodynamics reaction kinetics and crystal physics to elasticity and plasticity **Explosion Hazards in the Process Industries** Rolf K.

Eckhoff, 2016-06-14 *Explosion Hazards in the Process Industries* Second Edition delivers the most current and comprehensive content for today s process engineer Process safety and petrochemical engineers inherently accept that there is a risk of explosions when working on process facilities such as plants and refineries Yet many that enter this field do not have a

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