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Molecular Theory of Nematic (and Other) Liquid Crystals Paul van der Schoot 2022-08-30 This book provides a didactic derivation of the main theories of thermotropic and lyotropic liquid crystals, revealing the common molecular-theoretic framework that underpins both theories. This unified context will help young researchers in coming to grips with the basics of the simplest of liquid crystals, being uniaxial nematic liquid crystals, easing them into the intricacies of more complex forms of such materials irrespective of whether they are thermotropic or lyotropic. The coverage provides a theoretical understanding of the phase behaviour, that is, what drives molecules and particles to spontaneously align themselves, as well as an appreciation of the role of entropy, energy and so on. The focus here is on the main theories for the isotropic-nematic transition, being the Maier-Saupe and the Onsager theories, and how they are derived from a common description, known as (classical) density functional theory (DFT). This book will be a valuable resource for senior undergraduate and graduate students, and experimentalists and engineers who feel intimidated by more formal or rigorous theoretical accounts and textbooks. Exercises at the end of each chapter help the reader to apply the basic concepts also to other types of liquid crystal, in particular the smectic liquid crystal. Chemically Reacting Flow Robert J. Kee 2005-03-04 Complex chemically reacting flow simulations are commonly employed to develop quantitative understanding and to optimize reaction conditions in systems such as combustion, catalysis, chemical vapor deposition, and other chemical processes. Although reaction conditions, geometries, and fluid flow can vary widely among the applications of chemically reacting flows, all applications share a need for accurate, detailed descriptions of the chemical kinetics occurring in the gas-phase or on reactive surfaces. Chemically Reacting Flow: Theory and Practice combines fundamental concepts in fluid mechanics and physical chemistry, assisting the student and practicing researcher in developing analytical and simulation skills that are useful and extendable for solving real-world engineering problems. The first several chapters introduce transport processes, primarily from a fluid-mechanics point of view, incorporating computational simulation from the outset. The middle section targets physical chemistry topics that are required to develop chemically reacting flow simulations, such as chemical thermodynamics, molecular transport, chemical rate theories, and reaction mechanisms. The final chapters deal with complex chemically reacting flow simulations, emphasizing combustion and materials processing. Among other features, Chemically Reacting Flow: Theory and Practice - Advances a comprehensive approach to interweaving the fundamentals of chemical kinetics and fluid mechanics - Embraces computational simulation, equipping the reader with effective, practical tools for solving real-world problems - Emphasizes physical fundamentals, enabling the analyst to understand how reacting flow simulations achieve their results - Provides a valuable resource for scientists and engineers who use Chemkin or similar software Computer simulation of reactive systems is highly effective in the development, enhancement, and optimization of chemical processes. Chemically Reacting Flow helps prepare both students and professionals to take practical advantage of this powerful capability.

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Internet of Things, Artificial Intelligence and Blockchain Technology R.Lakshmana Kumar 2021-09-02 This book explores the concepts and techniques of IoT, AI, and blockchain. Also discussed is the possibility of applying blockchain for providing security in various domains. The specific highlight of this book is focused on the application of integrated technologies in enhancing data models, better insights and discovery, intelligent predictions, smarter finance, smart retail, global verification, transparent governance, and innovative audit systems. The book allows both practitioners and researchers to share their opinions and recent research in the convergence of these technologies among academicians and industry people. The contributors present their technical evaluation and compare it with existing technologies. Theoretical explanation and experimental case studies related to real-time scenarios are also included. This book pertains to IT professionals, researchers and academicians working on fourth revolution technologies.

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