

MICROFLUIDICS AND NANOFLUIDICS HANDBOOK

EDITED BY

**SUSHANTA K. MITRA
SUMAN CHAKRABORTY**



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Microfluidics And Nanofluidics Handbook 2 Volume Set Microfluidics Nanofludics Handbook

Klaus D. Sattler



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chemists biologists biomedical researchers industry professionals governmental scientists and others whose work is impacted by nanotechnology It will be an indispensable resource in academic government and industry libraries worldwide The fields impacted by nanoscience extend from materials science and engineering to biotechnology biomedical engineering medicine electrical engineering pharmaceutical science computer technology aerospace engineering mechanical engineering food science and beyond

Handbook of Fluid Dynamics Richard W. Johnson, 2016-04-06 Handbook of Fluid Dynamics offers balanced coverage of the three traditional areas of fluid dynamics theoretical computational and experimental complete with valuable appendices presenting the mathematics of fluid dynamics tables of dimensionless numbers and tables of the properties of gases and vapors Each chapter introduces a different fluid dynamics topic discusses the pertinent issues outlines proven techniques for addressing those issues and supplies useful references for further research Covering all major aspects of classical and modern fluid dynamics this fully updated Second Edition Reflects the latest fluid dynamics research and engineering applications Includes new sections on emerging fields most notably micro and nanofluidics Surveys the range of numerical and computational methods used in fluid dynamics analysis and design Expands the scope of a number of contemporary topics by incorporating new experimental methods more numerical approaches and additional areas for the application of fluid dynamics Handbook of Fluid Dynamics Second Edition provides an indispensable resource for professionals entering the field of fluid dynamics The book also enables experts specialized in areas outside fluid dynamics to become familiar with the field

Micro Process Engineering, 3 Volume Set Volker Hessel, Albert Renken, Jaap C. Schouten, Jun-Ichi Yoshida, 2009-03-23 This three volume handbook provides an overview of the key aspects of micro process engineering Volume 1 covers the fundamentals operations and catalysts volume 2 examines devices reactions and applications with volume 3 rounding off the trilogy with system process and plant engineering Fluid dynamics mixing heat mass transfer purification and separation microstructured devices and microstructured reactors are explained in the first volume Volume 2 segments microreactor design fabrication and assembly bulk and fine chemistry polymerisation fuel processing and functional materials into understandable parts The final volume of the handbook addresses microreactor systems design and scale up sensing analysis and control chemical process engineering economic and eco efficiency analyses as well as microreactor plant case studies in one book Together this 3 volume handbook explains the science behind micro process engineering to the scale up and their real life industrial applications

Handbook of Hydrocolloids Glyn O. Phillips, Peter A. Williams, 2020-11-06 Handbook of Hydrocolloids Third Edition is a must have substantive reference on hydrocolloids helping food industry scientists ever since its first edition was published and well received This thoroughly updated and expanded edition reviews the structure function properties and applications of a broad range of hydrocolloids used in food and related industries The third edition updates existing chapters on developments and theories on the structure and functional characteristics of individual hydrocolloids The book provides additional chapters on new techniques for the

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Point-of-Care Biosensors for Infectious Diseases Sushma Dave, Jayashankar Das, 2023-06-27 Point of Care Biosensors for Infectious Diseases Comprehensive resource covering key developments in biosensor based diagnostics for infectious diseases With its overview of currently available technologies Point of Care Biosensors for Infectious Diseases serves as a starting point for the successful development and application of pathogen biosensors in a point of care setting Here expert authors review current challenges in pathogen detection and the selection of suitable biomarkers detail currently available biosensor platforms including electrochemical piezoelectric magnetic and optical sensors and cover technology development for point of care biosensors for viral bacterial and parasitic infections Point of Care Biosensors for Infectious Diseases covers key topics such as Fundamentals of biosensor detection with a focus on optical and electrochemical techniques Organic and inorganic based nanomaterials for healthcare diagnostics Strategies for miniaturizing biosensor devices and state of the art integrated sensing platforms Latest trends in point of care biosensing systems to detect diagnose and monitor infectious diseases Providing comprehensive coverage of the subject Point of Care Biosensors for Infectious Diseases is an excellent reference for all developers researchers and technology managers in the areas of molecular diagnosis infectious diseases biosensors and related fields *Library Journal* ,2008 *Choice* ,2008 **Microfluidics and Nanofluidics Handbook**

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