

Kock-Yee Law · Hong Zhao

Surface Wetting

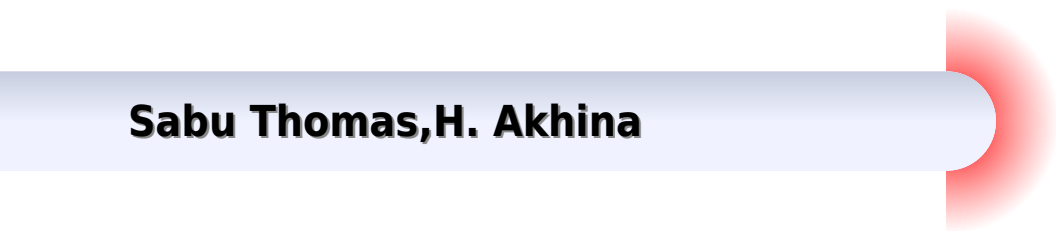
Characterization, Contact Angle, and
Fundamentals



Springer

Surface Wetting Characterization Contact Angle And Fundamentals

Sabu Thomas, H. Akhina



Surface Wetting Characterization Contact Angle And Fundamentals:

Surface Wetting Kock-Yee Law,Hong Zhao,2015-11-18 This book describes wetting fundamentals and reviews the standard protocol for contact angle measurements The authors include a brief overview of applications of contact angle measurements in surface science and engineering They also discuss recent advances and research trends in wetting fundamentals and include measurement techniques and data interpretation of contract angles *Materials and Contact Characterisation VIII* C.A. Brebbia,T. Rang,D. Northwood,2017-09-20 Material and contact characterisation is a rapidly advancing field that requires the application of a combination of numerical and experimental methods Including papers from the International Conference on Computational Methods and Experiments in Material and Contact Characterisation this volume presents the latest research in the field Membrane Characterization José Ignacio Calvo Díez,Antonio Hernández Giménez,2024-10-21 Membrane technology has become an essential tool in many industrial processes in which the separation or fractionation of various species is necessary to obtain or recover high value added products In these processes the synthetic membranes usually play a filter role being characterized by the size of the pores present in it which delimit the size of the molecules to be separated It is therefore necessary to have a precise knowledge of the characteristic size of said pores In this book the main techniques that can be used to determine the mean pore size and the pore size distribution of a synthetic membrane are analyzed and discussed from the point of view of their theoretical basis with special attention to equipment that should be used for each technique as well as reviewing their advantages and disadvantages Through this text the researcher or responsible of the quality control at membrane manufacturing companies will be able to know decide properly which of the porosimetric techniques is more adequate for the knowledge that needs to be obtained from their filters **Polymer-Based Nanoscale Materials for Surface Coatings** Sabu Thomas,Jesiya Susan George,2023-05-10 Polymer Based Nanoscale Materials for Surface Coatings presents the latest advances and emerging technologies in polymer based nanomaterials for coatings focusing on novel materials characterization techniques and cutting edge applications Sections present the fundamentals of surface preparation and nanocoatings linking materials and properties explaining the correlation between morphology surface phenomena and surface protection mechanism and covering theory modeling and simulation Other presented topics cover characterization methods with an emphasis on the latest developments in techniques and approaches Aging and lifecycle assessment of coated surfaces and coatings are also discussed Final sections explore advanced applications across a range of fields including intelligent coatings for biomedical implants self healing coatings syper hydrophobicity electroluminescence sustainable edible coatings marine antifouling corrosion resistance and photocatalytic coatings Explains the fundamentals of coatings and surface protection mechanisms materials and properties and modeling and simulation Presents detailed information on the latest characterization techniques to prepare nanoscale polymer coatings with enhanced properties Explores a broad range of state of the art applications and considers aging and

lifecycle assessments of coatings *Industrial Scale Inhibition* Ibrahim Yahia Yaagoob, Chandrabhan Verma, 2024-07-11

Learn the synthesis characterization scaling mechanisms and applications of green antiscalants to be utilized in modern industrial platforms Scale formation or mineral accumulation on the interior surfaces of water lines and containers is a serious and expensive hazard in numerous industries The prevention and elimination of scales has long been a major project demanding the production of antiscalant materials increasing awareness of the toxicity of traditional antiscalants however and rising environmental consciousness has increased demand for green antiscalants It s an exciting time for new chemists and chemical engineers to get involved in this growing field *Industrial Scale Inhibition* provides a comprehensive introduction to existing and ongoing developments in green antiscalants With coverage of synthesis characterization and many more subjects it promises to make a serious contribution to environmentally conscious industry The range of environmentally alternatives to traditional toxic antiscalants is explored and analyzed in this crucial volume *Industrial Scale Inhibition* readers will also find Detailed coverage of both synthetic and natural antiscalants Up to date reference material including pertinent websites and connections to the latest research Analysis of plant extracts natural polymers oleochemicals and many more *Industrial Scale Inhibition* is a useful reference for chemists and chemical engineers working in research and development and academia as well as high level researchers working in the fields of material science and engineering nanotechnology energy environment colloid sciences among others *Sustainable Environmental Geotechnics* Krishna R. Reddy, Arvind K. Agnihotri, Yeliz Yukselen-Aksoy, Brajesh K. Dubey, Ajay Bansal, 2020-09-07 This volume contains select papers presented during the Second International Conference on Environmental Geotechnology Recycled Waste Materials and Sustainable Engineering held in the University of Illinois at Chicago It covers the recent innovations trends and concerns practical challenges encountered and the solutions adopted in geoenvironmental engineering waste management and sustainable engineering This book will be useful for academics educators policy makers and professionals working in the field of civil engineering chemical engineering environmental sciences and public policy **Poly(vinyl chloride)-based Blends, Interpenetrating Polymer Networks (IPNs), and Gels** Sabu Thomas, H. Akhina, 2024-03-30 Poly vinyl chloride Based Blends IPNs and Gels brings together the latest research on the blending of PVC covering processing materials properties and applications This book addresses these challenges and highlights the state of the art in the field such as the development of eco friendly micro and nanostructured functional materials based on PVC and advances in experimental and theoretical studies of PVC based polymer blends This is a valuable resource for researchers and advanced students in polymer science chemistry composite science and materials science and engineering as well as R D professionals engineers and scientists working with advanced PVC based materials across a range of industries Offers methodical in depth coverage of PVC based blends IPNs and gels with each polymer type Explains advanced methods for PVC based materials with improved properties for a range of novel applications Provides avenues for improved sustainability discussing PVC from biomass life cycle

recycling and other environmental considerations

Women in Carbon Science and Technology Irma

Kuljanishvili, Aruna Ivaturi, Glauro Silva, Maria F. Pantano, Marinella Striccoli, Gabriela Borin Barin, 2025-01-09 We are delighted to present the inaugural Frontiers in Carbon Women in Carbon Science and Technology series of article collections At present less than 30% of researchers worldwide are women Long standing biases and gender stereotypes are discouraging girls and women away from science related fields and STEM Science Technology Engineering and Mathematics research in particular Science and gender equality are however essential to ensure sustainable development as highlighted by UNESCO In order to change traditional mindsets gender equality must be promoted stereotypes defeated and girls and women should be encouraged to pursue STEM careers Following the UNESCO's official celebration of the International Day of Women and Girls in Science Frontiers in Carbon is proud to offer this platform to promote the work of women scientists across all fields of carbon science

Fundamentals of Interface and Colloid Science J. Lyklema, 1995-10-17

Interface and colloid science is an important though often under valued branch of science It has applications and ramifications in domains as disparate as agriculture mineral dressing oil recovery chemical industry biotechnology medical science and many more Proper application of interface and colloid science requires factual knowledge and insight into the many basic laws of physics and chemistry upon which it is based Fundamentals of Interface and Colloid Science is the first book to cover this field in the depth necessary to be a valuable reference and an excellent textbook From the beginning to the end of the book systems of growing complexity are treated gradually The presentation is particularly suited to emphasize that interfaces are not autonomous phases As a rule interfacial properties can be varied only by changing the adjoining phases so that the properties of these bulk phases must be understood first The text also recognizes common principles behind a variety of phenomena and helps the reader to understand them and to develop and improve processes The systematic treatment of the material in the book makes this clear and makes the text itself an important contribution to the field Systematic treatment of information An excellent addition to volume I Two chapters contributed by other experts in the field Uses a deductive approach to increase the order of complexity Written by a leading expert in the field Two chapters contributed by other outstanding scientists Uses a systematic and deductive approach First comprehensive review of the topic

Bioinspired Superhydrophobic Nano- and Microstructured Surfaces for Drag Reduction and Optoelectronics Felix Vüllers, 2018-08-29 Inspired by superhydrophobic leaves of water plants a flexible superhydrophobic self cleaning transparent thin polymeric nanofur film was fabricated through highly scalable hot embossing and hot pulling techniques Nanofur can retain an air film underwater whose stability against external stimuli such as high pressure and movement through fluids is investigated Additionally the optical properties of nanofur are investigated and exploited to enhance the efficiency of optoelectronic devices

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