Applied Surface Thermodynamics Second Edition

Applied Surface ThermodynamicsSmall Systems and Fundamentals of ThermodynamicsApplied Surface ThermodynamicsApplied Surface Thermodynamics, Second EditionThermodynamics with Chemical Engineering ApplicationsApplied Surface ThermodynamicsHandbook of Surfaces and Interfaces of Materials, Five-Volume SetPhysical Chemistry of SurfacesThe Second Law of ThermodynamicsThe Encyclopædia BritannicaThe Encyclopaedia BritannicaThe Encyclopaedia BritannicaThe Encyclopædia BritannicaThe Encyclopedia BritannicaIndustrial RefrigerationA Manual of the Steam Engine and Other Prime MoversElementary Treatise on Natural PhilosophyThermodynamicsJournal of Experimental and Theoretical PhysicsPhysics Letters A.W. Neumann Yu. K. Tovbin Jan Spelt A.W. Neumann Elias I. Franses A. W. Neumann Hari Singh Nalwa Arthur W. Adamson Joseph Kestin Thomas Spencer Baynes Thomas Spencer Baynes Thomas Spencer Baynes William John Macquorn Rankine Augustin Privat-Deschanel George Hartley Bryan

Applied Surface Thermodynamics Small Systems and Fundamentals of Thermodynamics Applied Surface Thermodynamics Applied Surface Thermodynamics, Second Edition Thermodynamics with Chemical Engineering Applications Applied Surface Thermodynamics Handbook of Surfaces and Interfaces of Materials, Five-Volume Set Physical Chemistry of Surfaces The Second Law of Thermodynamics The Encyclopædia Britannica The Encyclopaedia Britannica The Encyclopaedia Britannica The Encyclopædia Britannica The Encyclopedia Britannica Industrial Refrigeration A Manual of the Steam Engine and Other Prime Movers Elementary Treatise on Natural Philosophy Thermodynamics Journal of Experimental and Theoretical Physics Physics Letters *A. W. Neumann Yu. K. Tovbin Jan Spelt A. W. Neumann Elias I. Franses A. W. Neumann Hari Singh Nalwa Arthur W. Adamson Joseph Kestin Thomas Spencer Baynes Thomas Spencer Baynes Thomas Spencer Baynes William John Macquorn Rankine Augustin Privat-Deschanel George Hartley Bryan*

surface thermodynamics forms the foundation of any meaningful study of capillarity and wetting phenomena the second edition of applied surface thermodynamics offers a comprehensive state of the art treatment of this critical topic it provides students and researchers with fundamental knowledge and practical guidelines in solving real world proble

small systems are a very active area of research and development due to improved instrumentation that allows for spatial resolution in the range of sizes from one to 100 nm in this size range many physical and chemical properties change which opens up new approaches to the study of substances and their practical application this affects both traditional fields of knowledge and many other new fields including physics chemistry biology etc this book highlights new developments in statistical thermodynamics that answer the most important questions about the specifics of small systems when one cannot apply equations or traditional thermodynamic models

offers a treatment of applied surface dynamics in relation to contact angles and surface tensions providing a foundation for the subject and detailed presentations of recent techniques the work supplies a theoretical framework for the study and measurement of surface tensions and contact angles and acts as a day to day guide for laboratory pract

surface thermodynamics forms the foundation of any meaningful study of capillarity and wetting phenomena the second edition of applied surface thermodynamics offers a comprehensive state of the art treatment of this critical topic it provides students and researchers with fundamental knowledge and practical guidelines in solving real world problems related to the measurement and interpretation of interfacial properties containing 40 percent new material and reorganized content this second edition begins by presenting a generalized gibbs theory of capillarity including discussions of highly curved interfaces concentrating on drop shape techniques the book discusses liquid fluid interfacial tension and its measurement next the authors focus on contact angles with chapters on experimental procedures thermodynamic models and the interpretation of contact angles in terms of solid surface tension the book discusses theoretical approaches to determining solid surface tension as well as interfacial tensions of particles and their manifestations it concludes by discussing drop size dependence of contact angles and line tension what s new in the second edition recent progress in axisymmetric drop shape analysis adsa image processing methods for drop shape analysis advanced applications and generalizations of adsa recent studies of contact angle hysteresis contact angles on inert fluoropolymers update on line tension and the drop size dependence of contact angles exploring a range of different aspects of surface science and its applications the book logically progresses so that knowledge of previous chapters enhances the understanding of subsequent material yet each chapter is freestanding so that experienced researchers can quickly refer to topics of particular interest

master the principles of thermodynamics and understand their practical real world applications with this deep and intuitive undergraduate textbook

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this handbook brings together under a single cover all aspects of the chemistry physics and engineering of surfaces and interfaces of materials currently studied in academic and industrial research it covers different experimental and theoretical aspects of surfaces and interfaces their physical properties and spectroscopic techniques that have been applied to a wide class of inorganic organic polymer and biological materials the diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization the large volume of experimental data on chemistry physics and engineering aspects of materials surfaces and interfaces remains scattered in so many different periodicals therefore this handbook compilation is needed the information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic these five volumes surface and interface phenomena surface characterization and properties nanostructures micelles and colloids thin films and layers biointerfaces and applications provide multidisciplinary review chapters and summarize the current status of the field covering important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world fully cross referenced this book has clear precise and wide appeal as an essential reference source long due for the scientific community the complete reference on the topic of surfaces and interfaces of materialsthe information presented in this multivolume reference draws on two decades of pioneering researchprovides multidisciplinary review chapters and summarizes the current status of the fieldcovers important scientific and technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniquescontributions from internationally recognized experts from all over the world

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