Fault Mechanics And Transport Properties Of Rocks

Transport Properties of FluidsThermodynamic and Transport Properties of FluidsTransport Properties of FluidsExperimental Thermodynamics Volume IXTransport Properties of Chemicals and HydrocarbonsTransport Properties of FoodsTransport Properties of FluidsTransport Properties of Chemicals and HydrocarbonsThermodynamic and Transport Properties of FluidsTransport Properties of Organic LiquidsTheory of Transport Properties of Semiconductor NanostructuresTransport Properties of Dense PlasmasThermodynamic and Transport Properties of FluidsTransport Properties of ConcreteCoefficients for Calculating Thermodynamic and Transport Properties of Individual SpeciesTECHNICAL PROGRESS REPORT, THE TRANSPORT PROPERTIES OF AIR AT ELEVATED TEMPERATURESThermodynamic and Transport Properties of Coal LiquidsApproximations for the Thermodynamic and Transport Properties of High-temperature AirTransport Properties of ConcreteThermal Transport Properties of Polymers Jürgen Millat G. F. C. Rogers Jürgen Millat Marc J Assael Carl L. Yaws George D. Saravacos Joseph Kestin Carl L. Yaws G. Latini Eckehard Schöll W. Ebeling et al. D James Benton Peter A. Claisse Bonnie J. McBride United States. National Bureau of Standards. Heat Division Constantine Tsonopoulos C. Frederick Hansen Peter A. Claisse A. Y. Abdulla

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TEMPERATURES Thermodynamic and Transport Properties of Coal Liquids Approximations for the Thermodynamic and Transport Properties of High-temperature Air Transport Properties of Concrete Thermal Transport Properties of Polymers *Jürgen Millat G. F. C. Rogers Jürgen Millat Marc J Assael Carl L. Yaws George D. Saravacos Joseph Kestin Carl L. Yaws G. Latini Eckehard Schöll W. Ebeling et al. D James Benton Peter A. Claisse Bonnie J. McBride United States. National Bureau of Standards. Heat Division Constantine Tsonopoulos C. Frederick Hansen Peter A. Claisse A. Y. Abdulla*

this book describes the most reliable methods for evaluating the transport properties of pure gases and fluid mixtures such as viscosity thermal conductivity and diffusion the authors place particular emphasis on recent theoretical advances in our understanding of fluid transport properties in all the different regions of temperature and pressure in addition to the important theoretical tools the authors cover the different methods of data representation and they follow this with a section that demonstrates the application of selected models in a range of circumstances they then offer case studies of transport property analysis for real fluids and the book concludes with a discussion of various international data banks and prediction packages advanced students of kinetic theory as well as engineers and scientists involved with the design of process equipment or the interpretation of measurements of fluid transport properties will find this book indispensable

the fifth edition has been issued to incorporate two new tables data of refrigerant 134a and a table containing for selected substances molar enthalpies and molar gibbs functions of formation equilibirum constants of formation as well as molar heat capacities and absolute entropies

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written by the leading experts in the field this book will provide a valuable current account of the advances in the measurement and prediction of transport properties that have occurred over the last twenty years critical to industry these properties are fundamental to for example the development of fossil fuels carbon sequestration and alternative energy sources this unique and comprehensive account will provide the experimental and theoretical background of near equilibrium transport properties which provide the background when investigating industrial applications coverage includes new experimental techniques and how existing techniques have developed new fluids eg molten metals dense fluids and critical enhancements of transport properties of pure substances practitioners and researchers in chemistry and engineering will benefit from this state of the art record of recent advances in the field of transport properties

covering more than 7 800 organic and inorganic chemicals and hydrocarbons transport properties of chemical and hydrocarbons second edition is an essential volume for any chemist or chemical engineer spanning gases liquids and solids the book covers all critical properties including viscosity thermal conductivity and diffusion coefficient from c1 to c100 organics and ac to zr inorganics the data in this handbook is a perfect quick reference for field lab or classroom use by collecting a massive but relevant amount of information in one source the handbook enables engineers to spend more time developing new designs and processes and less time collecting vital properties data this is not a theoretical treatise but an aid to the practicing engineer in the field on day to day operations and long range projects simplifies research and significantly reduces the amount of time spent collecting properties data compiled by an expert in the field the book provides engineers with data they can trust all critical properties are covered for ease of reference including viscosity thermal conductivity and diffusion coefficient

this study covers all the transport properties of food materials and systems exploring viscosity moisture diffusivities thermal conductivity and diffusivity transport and permeability of small molecules and heat and mass transfer

coefficients the authors provide physical mathematical or empirical models of the transport processes for each application as well as principal property values and measuring methods for various food products and systems

band 1

carl yaws a leading authority on chemical compounds in the chemical engineering field has done it again in transport properties of chemicals and hydrocarbons an essential volume for any chemist or chemical engineer s library he has amassed over 7 800 organic and inorganic chemicals and hydrocarbons spanning gases liquids and solids and covering all critical properties including viscosity thermal conductivity and diffusion coefficient this volume represents more properties on more chemicals than any single work of its kind

the liquid state is possibly the most difficult and intriguing state of matter to model organic liquids are required mainly as working fluids in almost all industrial activities and in most appliances e g in air conditioning transport properties namely dynamic viscosity and thermal conductivity are possibly the most important properties for the design of devices and appliances most theoretical studies on the liquid state date back to the fifties however huge advances in experimental studies and applied research on heat and mass transfer in liquids have been achieved during past decades most of the models cannot rely on theory alone and are empirical while for most organic liquids only a few experimental points and empirical correlations are available in literature the aim of this book is to present both theoretical approaches and the latest experimental advances on the issue and to merge them into a wider approach the book is organised into five chapters the first chapter presents our theoretical knowledge of the liquid state the second presents the tentative models for the evaluation of the thermal conductivity of organic liquids and confronts their results with the experimental data available in literature the third presents the tentative models for the evaluation of the dynamic viscosity of organic liquids and confronts their results with the experimental data available in literature the fourth presents a deeper review of the choice methods for thermal conductivity and their applications to mixtures of organic liquids and the fifth chapter presents a deeper review of the choice methods for dynamic viscosity and their applications to mixtures of organic liquids

recent advances in the fabrication of semiconductors have created almost un limited possibilities to design structures on a nanometre scale with extraordinary electronic and optoelectronic properties the theoretical understanding of elec trical transport in such nanostructures is of utmost importance for future device applications this represents a challenging issue of today s basic research since it requires advanced theoretical techniques to cope with the quantum limit of charge transport ultrafast carrier dynamics and strongly nonlinear high field ef fects this book which appears in the electronic materials series presents an over view of the theoretical background and recent developments in the theory of electrical transport in semiconductor nanostructures it contains 11 chapters which are written by experts in their fields starting with a tutorial introduction to the subject in chapter 1 it proceeds to present different approaches to transport theory the semiclassical boltzmann transport equation is in the centre of the next three chapters hydrodynamic moment equations chapter 2 monte carlo techniques chapter 3 and the cellular au tomaton approach chapter 4 are introduced and illustrated with applications to nanometre structures and device simulation a full quantum transport theory covering the kubo formalism and nonequilibrium green s functions chapter 5 as well as the density matrix theory chapter 6 is then presented

no detailed description available for transport properties of dense plasmas

accurate consistent and continuous thermodynamic and transport properties are essential to the analysis and design of energy devices of all sorts from power generation to product manufacturing articles and papers abound covering various aspects of this important field often these are esoteric and omit details on how the process is accomplished the end result of property research may be inaccessible to practitioners who would use the information to create and manage the machines of industry this text is a step by step manual on why and how to develop and implement functions for thermodynamic and transport properties from raw data to excel r add ins

transport properties of concrete covers how to measure the ability of ions and fluids to move through concrete material and how to use the results to model performance these transport properties largely determine the durability of concrete and of steel embedded within it as well as the effectiveness of structures such as landfill containment barriers the book begins by explaining in detail what transport properties are and how to write computer models for

transport processes early chapters present and explain computer models written in basic code coverage then proceeds to a wide range of tests for the transport properties of concrete and methods for calculating the values for these properties from the test results using analytical and numerical models the final chapters then show how the values obtained can be used to predict the durability of reinforced concrete to model the effect of gas pressure and to model waste containment structures a number of practical examples are given in which the calculations and computer models have been applied to real experimental data transport properties of concrete provides a comprehensive examination of the subject and will be of use to all concerned with the durability and effectiveness of concrete structures provides a detailed understanding of the various transport mechanisms that take place during testing in concrete shows how to obtain fundamental transport properties

a monograph for the student specialist and engineer working on coal liquefaction process development and design focuses on thermodynamic and transport properties needed in heat and material balances and equipment design calculations presents data needs for process design all coal liquefaction processes and methods for characterizing coal liquids and model compounds discusses properties such as vapor vapor liquid equilibria thermal density surface tension and transport properties includes look at future needs

the thermodynamic and transport prorerties of high temperature air are found in closed form starting from approximate partition functions for the major components in air and neglecting all minor components the compressibility energy entropy the specific heats the speed of sound the coefficients of viscosity and of thermal conductivity and the prandtl numbers for air are tabulated from 500 degrees to 15 000 degrees k over a range of pressure from 0 0001 to 100 atmospheres the enthalpy of air and the mol fractions of the major components of air can easily be found from the tabulated values for compressibility and energy it is predicted that the prandtl number for fully ionized air will become small compared to unity the order of 0 01 and this implies that boundary layers in such flow will be very transparent to heat flux

transport properties of concrete modelling the durability of structures second edition covers how to measure transport properties and use the results to model performance the transport properties of concrete and

measurements of the ability of ions and fluids to move through the material these properties largely determine the durability of concrete and of steel embedded within it as well as the effectiveness of structures such as waste containment barriers the book provides a comprehensive examination of the subject and will be of use to all concerned with the durability and effectiveness of concrete structures includes a new chapter on modelling the durability of concrete structures showing how both diffusion and pressure driven flow should be included covers the problems that occur when carrying out transport tests on concrete incorporating both traditional and newer cement replacements shows how properties such as permeabilty which are needed for modelling may be derived from in situ tests on structures

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