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TRANSPORT PROPERTIES OF CHEMICALS AND HYDROCARBONS

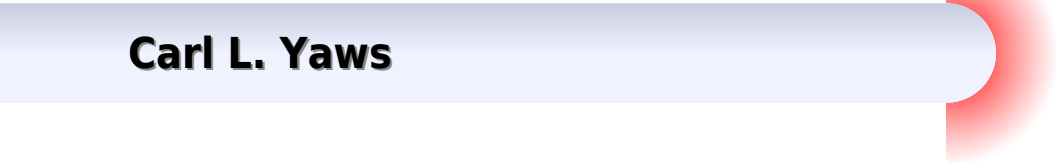
CARL L. YAWS



SECOND EDITION

Transport Properties Of Chemicals And Hydrocarbons Second Edition

Carl L. Yaws



Transport Properties Of Chemicals And Hydrocarbons Second Edition:

Transport Properties of Chemicals and Hydrocarbons Carl L. Yaws, 2014-06-20 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

Transport Properties of Chemicals and Hydrocarbons Carl L. Yaws, 2009-03-06 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

Transport Phenomena Fundamentals, Second Edition Joel L. Plawsky, 2009-09-24 Although the practice of chemical engineering has broadened to encompass problems in a range of disciplines including biology biochemistry and nanotechnology one of the curriculum's foundations is built upon the subject of transport phenomena **Transport Phenomena Fundamentals Second Edition** provides a unified treatment of heat mass and momentum transport based on a balance equation approach Designed for a two term course Used in a two term transport phenomena sequence at Rensselaer Polytechnic Institute this text streamlines the approach to how the subject is taught The first part of the book takes students through the balance equation in the context of diffusive transport be it momentum energy mass or charge Each chapter adds a term to the balance equation highlighting the effects of that addition on the physical behavior of the system and the underlying mathematical description The second half of the book builds upon the balance equation description of diffusive transport by introducing convective transport terms focusing on partial rather than ordinary differential equations The Navier Stokes and convective transport equations are derived from balance equations in both macroscopic and microscopic forms Includes examples and problems drawn from Comsol software The second edition of this text is now enhanced by the use of finite element methods in the form of examples and extended homework problems A series of example modules are associated with each chapter of the text Some of the modules are used to produce examples in

the text and some are discussed in the homework at the end of each chapter All of the modules are located online at an accompanying website which is designed to be a living component of the course available on the download tab

Thermophysical Properties of Chemicals and Hydrocarbons Carl L. Yaws,2014-06-20 Compiled by an expert in the field the book provides an engineer with data they can trust Spanning gases liquids and solids all critical properties including viscosity thermal conductivity and diffusion coefficient are covered 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 usage By collecting a large 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 an engineer with data they can trust in design research development and manufacturing A single easy reference for critical temperature dependent properties for a wide range of hydrocarbons including C1 to ClOO organics and Ac to Zr inorganics **Treatise on Process Metallurgy** Alexander McLean,Roderick Guthrie,Sridhar Seetharaman,H. Y. Sohn,2024-08-23 Treatise on Process Metallurgy Volume Four Industrial Production provides academics with the fundamentals of the manufacturing of metallic materials from raw materials into finished parts or products In these fully updated volumes coverage is expanded into four volumes including Process Fundamentals encompassing process fundamentals structure and properties of matter thermodynamic aspects of process metallurgy and rate phenomena in process metallurgy Processing Phenomena encompassing interfacial phenomena in high temperature metallurgy metallurgical process phenomena and metallurgical process technology Metallurgical Processes encompassing mineral processing aqueous processing electrochemical material and energy processes and iron and steel technology non ferrous process principles and production technologies and more The work distills the combined academic experience from the principal editor and the multidisciplinary four member editorial board Provides the entire breadth of process metallurgy in a single work Includes in depth knowledge in all key areas of process metallurgy Approaches the topic from an interdisciplinary perspective providing broad range coverage on topics **Handbook of Physical-Chemical Properties and Environmental Fate for Organic Chemicals** Donald Mackay,Wan-Ying Shiu,Kuo-Ching Ma,Sum Chi Lee,2006-03-14 CHOICE Award Winner Transport and transformation processes are key for determining how humans and other organisms are exposed to chemicals These processes are largely controlled by the chemicals physical chemical properties This new edition of the Handbook of Physical Chemical Properties and Environmental Fate for Organic Chemicals is a comprehensive The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals Carl L. Yaws,2015-01-06 Refineries and petrochemical engineers today are accepting more unconventional feedstocks such as heavy oil and shale causing unique challenges on the processing side of the business To create more reliable engineering

design of process equipment for the petrochemical industry petroleum engineers and process managers are forced to study the physical properties and compounds of these particular hydrocarbons Instead of looking up each compound s information The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals Second Edition presents an easy to use format with rapid access to search for the particular compound and understand all the complex calculations in one tabular format Understanding the composition of hydrocarbons is not easy to calculate quickly or accurately but this must have reference leads the engineer to better estimated properties and fractions from easily measured components Expanded to cover more total compounds and relevant functions The Yaws Handbook of Physical Properties for Hydrocarbons and Chemicals Second Edition remains a necessary reference tool for every petrochemical and petroleum engineers library Coverage added on elements for hydrocarbons and chemicals with more than 200 real world cases included for practicality Increased compound coverage from 41 000 to 54 000 total compounds to quickly access for everyday use New functions added such as testing boiling point temperature and new data on density and refractory index Using the Engineering Literature Bonnie A. Osif,2016-04-19 With the encroachment of the Internet into nearly all aspects of work and life it seems as though information is everywhere However there is information and then there is correct appropriate and timely information While we might love being able to turn to Wikipedia for encyclopedia like information or search Google for the thousands of links

Contaminant Hydrogeology C. W. Fetter,Thomas Boving,David Kreamer,2017-10-24 Tremendous progress has been made in the field of remediation technologies since the second edition of Contaminant Hydrogeology was published two decades ago and its content is more important than ever Recognizing the extensive advancement and research taking place around the world the authors have embraced and worked from a larger global perspective Boving and Kreamer incorporate environmental innovation in studying and treating groundwater soil contamination and the transport of those contaminants while building on Fetter s original foundational work Thoroughly updated expanded and reorganized the new edition presents a wealth of new material including new discussions of emerging and potential contaminant sources and their characteristics like deep well injection fracking fluids and in situ leach mining New sections cover BET and Polanyi adsorption potential theory vapor transport theory the introduction of the Capillary and Bond Numbers the partitioning interwell tracer testing technique for investigating NAPL sites aerial photographic interpretation geophysics immunological surveys high resolution vertical sampling flexible liner systems groundwater tracers and much more Contaminant Hydrogeology is intended as a textbook in upper level courses in mass transport and contaminant hydrogeology and remains a valuable resource for professionals in both the public and private sectors The Yaws Handbook of Vapor Pressure Carl L. Yaws,2015-03-12 Increased to include over 25 000 organic and inorganic compounds The Yaws Handbook of Vapor Pressure Antoine Coefficients Second Edition delivers the most comprehensive and practical database source for today s petrochemical Understanding antoine coefficients for vapor pressure leads to numerous critical engineering applications

such as pure components in storage vessels pressure relief valve design flammability limits at the refinery as well as environmental emissions from exposed liquids making data to efficiently calculate these daily challenges a fundamental need

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