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CRC Handbook of Chemistry and Physics - David R. Lide 1995-03-09 This student edition features over 50 new or completely revised tables, most of which are in the areas of fluid properties and properties of solids.

The book also features extensive references to other compilations and databases that contain additional information.

Technical News Bulletin - United States. National Bureau of Standards 1973

Catalog of National Bureau of Standards Publications, 1966-1976 - United States. National Bureau of Standards 1978

Publications - United States. National Bureau of Standards 1973

Theory and Practice of Radiation Thermometry - David P. DeWitt 1991-01-16

Here is the most comprehensive treatment available on practical temperature measurement methods using radiation thermometry. All aspects of measurement technology are covered: basic principles, types of radiation thermometers, calibration methods, and applications. Covers the latest instruments and discusses the central problem of radiation thermometry--how to infer the true temperature from the indicated temperature. Generously illustrated.

Laser Induced Damage in Optical Materials - 1979

Dimensions - 1972

Experimental Techniques for Low-Temperature Measurements - Jack Ekin 2006-10-12

Publisher description

NASA Technical Note - 1977

Technical News Bulletin of the National Bureau of Standards - 1973

Critical Surveys of Data Sources - 1976

NBS Special Publication - 1978

Proceedings of the Symposium on Laser Processes for Microelectronic Applications - J. J. Ritsko 1988

Iccm-12 - Woodhead Publishing, Limited 1997

CRC Handbook of Chemistry and Physics, 94th Edition - William M. Haynes 2016-04-19 Celebrating the 100th anniversary of the CRC Handbook of Chemistry and Physics, this 94th edition is an update of a classic reference, mirroring the growth and direction of science for a century. The Handbook continues to be the most accessed and respected scientific reference in the science, technical, and medical communities. An authoritative resource consisting of tables of data, its usefulness spans every discipline. Originally a 116-page pocket-sized book, known as the Rubber Handbook, the CRC Handbook of Chemistry and Physics comprises 2,600 pages of critically evaluated data. An essential resource for scientists around the world, the Handbook is now available in print, eBook, and online formats. New tables: Section 7: Biochemistry Properties of Fatty Acid Methyl and Ethyl Esters Related to Biofuels Section 8: Analytical Chemistry Gas Chromatographic Retention Indices Detectors for Liquid Chromatography Organic Analytical Reagents for the Determination of Inorganic Ions Section 12: Properties of Solids Properties of Selected Materials at Cryogenic Temperatures Significantly updated and expanded tables: Section 3: Physical Constants of Organic

Compounds Expansion of Diamagnetic Susceptibility of Selected Organic Compounds Section 5: Thermochemistry, Electrochemistry, and Solution Chemistry Update of Electrochemical Series Section 6: Fluid Properties Expansion of Thermophysical Properties of Selected Fluids at Saturation Major expansion and update of Viscosity of Liquid Metals Section 7: Biochemistry Update of Properties of Fatty Acids and Their Methyl Esters Section 8: Analytical Chemistry Major expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9: Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 11: Nuclear and Particle Physics Update of Summary Tables of Particle Properties Section 14: Geophysics, Astronomy, and Acoustics Update of Atmospheric Concentration of Carbon Dioxide, 1958-2012 Update of Global Temperature Trend, 1880-2012 Major update of Speed of Sound in Various Media Section 15: Practical Laboratory Data Update of Laboratory Solvents and Other Liquid Reagents Major update of Density of Solvents as a Function of Temperature Major update of Dependence of Boiling Point on Pressure Section 16: Health and Safety Information Major update of Threshold Limits for Airborne Contaminants Appendix A: Major update of Mathematical Tables Appendix B: Update of Sources of Physical and Chemical Data

Laser Induced Damage in Optical Materials : 1978

- Alexander J. Glass 1979

Laser Induced Damage in Optical Materials:1978 -

Underwater Medicine and Related Sciences - Margaret F. Werts 2012-12-06

This volume is the third annotated bibliography on this subject area to be compiled by these authors. The first, published by Gordon and Breach, Science Publishers, in 1971, was entitled AN ANNOTATED BIBLIOGRAPHY ON DIVING AND SUBMARINE MEDICINE. It covered material published during the 1960's. The second volume, entitled UNDERWATER MEDICINE AND RELATED SCIENCES: A GUIDE TO THE LITERATURE, published in 1973 by Plenum Press, covered primarily material published during 1970 and 1971, with some material from 1968 and 1969. The present volume covers material published during 1972 and 1973, but here again some earlier material has been included. The purpose of these annotated bibliographies is to make available a large proportion of the published material, in abstract form, indexed in such a manner as to make it possible to compile a reasonably complete annotated bibliography on any specific subject area in the field. It is possible thus to learn where the work is being done, by whom, and how extensively. Also, it becomes obvious what areas of research are lacking or inadequate. These specific searches can also form a background of reference material on which to base further research, or from which to write monographs or state-of-the-art surveys. Papers,

articles and reports listed here are in most cases readily available. 1998 Freshman Achievement Award - David R. Lide 2003-06-19 Provides chemical and physical data.

Publications of the National Bureau of Standards ... Catalog - United States. National Bureau of Standards 1975

Catalog of National Bureau of Standards Publications, 1966-1976: pt. 1-2. Citations and abstracts. v. 2. pt. 1-2. Key word index - United States. National Bureau of Standards. Technical Information and Publications Division 1978

Physics-Based Vision: Principles and Practice - Lawrence B. Wolff 1993-01-02 Commentaries by the editors to this comprehensive anthology in the area of physics-based vision put the papers in perspective and guide the reader to a thorough understanding of the basics of the field. Paper Topics Include: - Intensity Reflection Models - Polarization and Refraction - Camera Calibration - Quantization and Sampling - Depth from Opt

CRC Handbook of Chemistry and Physics, 85th Edition - David R. Lide 2004-06-29 Get a FREE first edition facsimile with each copy of the 85th! Researchers around the world depend upon having access to authoritative, up-to-date data. And for more than 90 years, they have relied on the CRC Handbook of Chemistry and Physics for that data. This year is no exception. New tables, extensive updates, and added sections mean the Handbook has again set a

new standard for reliability, utility, and thoroughness. This edition features a Foreword by world renowned neurologist and author Oliver Sacks, a free facsimile of the 1913 first edition of the Handbook, and thumb tabs that make it easier to locate particular data. New tables in this edition include: Index of Refraction of Inorganic Crystals Upper and Lower Azeotropic Data for Binary Mixtures Critical Solution Temperatures of Polymer Solutions Density of Solvents as a Function of Temperature By popular request, several tables omitted from recent editions are back, including Coefficients of Frictionand Miscibility of Organic Solvents. Ten other sections have been substantially revised, with some, such as the Table of the Isotopes and Thermal Conductivity of Liquids, significantly expanded. The Fundamental Physical Constants section has been updated with the latest CODATA/NIST values, and the Mathematical Tables appendix now features several new sections covering topics that include orthogonal polynomials Clebsch-Gordan coefficients, and statistics.

Nonequilibrium Processes in Partially Ionized Gases - M. Capitelli 2012-12-06

The NATO . Advanced Research Insti tute on Nonequilibrium Processes in Partially Ionized Gases was held at Acquafredda di Maratea during 4-17 June 1989. The Institute considered the interconnections between scattering and transport theories and modeling of nonequilibrium systems generated by electrical

discharges, emphasizing the importance of microscopic processes in affecting the bulk properties of plasmas. The book tries to reproduce these lines. In particular several contributions describe scattering cross sections involving electrons interacting with atoms and molecules in both ground and excited states (from theoretical and experimental point of view), of energy transfer processes as well as reactive ones involving excited molecules colliding with atoms and molecules as well as with metallic surfaces. Other contributions deal with the basis of transport theories (Boltzmann and Monte Carlo methods) for describing the bulk properties of non equilibrium plasmas as well as with the modeling of complicated systems emphasizing in particular the strong coupling between the Boltzmann equation and excited state kinetics. Finally the book contains several contributions describing applications in different fields such as Excimer Lasers, Negative Ion Production, RF Discharges, Plasma Chemistry, Atmospheric Processes and Physics of Lamps. The Organizing Committee gratefully acknowledges the generous financial support provided by the NATO Science Committee as well as by Azienda Autonoma di Soggiorno e Turismo of Maratea, by University of Bari, by C. N. R. (Centro di Studio per la Chimica dei Plasmi and Comitato per la Chimica), by ENEA, by Lawrence Livermore Laboratory and by US Army Research Office.

Principles of Radiation

Interaction in Matter and Detection - Claude Leroy 2011-09-23
This book, like the first and second editions, addresses the fundamental principles of interaction between radiation and matter and the principles of particle detection and detectors in a wide scope of fields, from low to high energy, including space physics and medical environment. It provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter, detecting systems, performance of detectors and their optimization. The third edition includes additional material covering, for instance: mechanisms of energy loss like the inverse Compton scattering, corrections due to the Landau–Pomeranchuk–Migdal effect, an extended relativistic treatment of nucleus–nucleus screened Coulomb scattering, and transport of charged particles inside the heliosphere. Furthermore, the displacement damage (NIEL) in semiconductors has been revisited to account for recent experimental data and more comprehensive comparisons with results previously obtained. This book will be of great use to graduate students and final-year undergraduates as a reference and supplement for courses in particle, astroparticle, space physics and instrumentation. A part of the book is directed toward courses in medical physics. The book can also be used by researchers in experimental particle physics at low, medium, and high energy who are

dealing with instrumentation. Errata(s) Errata Contents:Electromagnetic Interaction of Radiation in MatterNuclear Interactions in MatterRadiation Environments and Damage in Silicon SemiconductorsScintillating Media and Scintillator DetectorsSolid State DetectorsDisplacement Damage and Particle Interactions in Silicon DevicesGas Filled ChambersPrinciples of Particle Energy DeterminationSuperheated Droplet (Bubble) Detectors and CDM SearchMedical Physics Applications Readership: Researchers, academics, graduate students and professionals in accelerator, particle, astroparticle, space, applied and medical physics. Keywords:Interactions Between Radiation/Particles and Matter;High;Intermediate and Low Energy Particle Physics;Medical Physics;Radiation/Particle Detection;Space Physics;Detectors;Semiconductors;Calorimeters;Chambers;Scintillators;Silicon Pixels;Radiation Damage;Single Event Effects;Solar CellsKey Features:Covers state-of-the-art detection techniques and underlying theoriesAddresses topics of considerable use for professionals in medical physics, nuclear engineering, and environmental studiesContains an updated reference table set of physical properties

Possible Contributions of Cement and Concrete Technology to Energy Conservation - Alexander J. Glass 1979

Journal of the Optical Society of America -

1979

NBS Technical Note - 1959

CRC Handbook of Chemistry and Physics - William M. Haynes 2016-04-19
Mirroring the growth and direction of science for a century, the Handbook, now in its 93rd edition, continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting tables of data, its usefulness spans every discipline. This edition includes 17 new tables in the Analytical Chemistry section, a major update of the CODATA Recommended Values of the Fundamental Physical Constants and updates to many other tables. The book puts physical formulas and mathematical tables used in labs every day within easy reach. The 93rd edition is the first edition to be available as an eBook.

Publications of the National Bureau of Standards, 1973 Catalog - United States. National Bureau of Standards 1974

Theory and Design of Charged Particle Beams - Martin Reiser 2008-06-25
This indispensable work offers a broad synoptic description of beams, applicable to a wide range of other devices, such as low-energy focusing and transport systems and high-power microwave sources. The monograph develops the material from the basic principles in a systematic way and discusses the underlying physics and validity of theoretical relationships, design formulas and scaling laws. Assumptions and approximations are

clearly indicated throughout. This new, revised and updated edition has 10% additional content, and features, among others, a new chapter on beam physics research from 1993 to 2007, significant enhancement of chapter 6 on emittance variation, updated references and color image plates.

CRC Handbook of Chemistry and Physics, 96th Edition - William M. Haynes 2015-06-09

Proudly serving the scientific community for over a century, this 96th edition of the CRC Handbook of Chemistry and Physics is an update of a classic reference, mirroring the growth and direction of science. This venerable work continues to be the most accessed and respected scientific reference in the world. An authoritative resource consisting of tables of data and current international recommendations on nomenclature, symbols, and units, its usefulness spans not only the physical sciences but also related areas of biology, geology, and environmental science. The 96th edition of the Handbook includes 18 new or updated tables along with other updates and expansions. A new series highlighting the achievements of some of the major historical figures in chemistry and physics was initiated with the 94th edition. This series is continued with this edition, which is focused on Lord Kelvin, Michael Faraday, John Dalton, and Robert Boyle. This series, which provides biographical information, a list of major achievements, and notable quotations attributed to each of

the renowned chemists and physicists, will be continued in succeeding editions. Each edition will feature two chemists and two physicists. The 96th edition now includes a complimentary eBook with purchase of the print version. This reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach. New Tables: Section 1: Basic Constants, Units, and Conversion Factors Descriptive Terms for Solubility Section 8: Analytical Chemistry Stationary Phases for Porous Layer Open Tubular Columns Coolants for Cryotrapping Instability of HPLC Solvents Chlorine-Bromine Combination Isotope Intensities Section 16: Health and Safety Information Materials Compatible with and Resistant to 72 Percent Perchloric Acid Relative Dose Ranges from Ionizing Radiation Updated and Expanded Tables Section 6: Fluid Properties Sublimation Pressure of Solids Vapor Pressure of Fluids at Temperatures Below 300 K Section 7: Biochemistry Structure and Functions of Some Common Drugs Section 9: Molecular Structure and Spectroscopy Bond Dissociation Energies Section 11: Nuclear and Particle Physics Summary Tables of Particle Properties Table of the Isotopes Section 14: Geophysics, Astronomy, and Acoustics Major World Earthquakes Atmospheric Concentration of Carbon Dioxide, 1958-2014 Global Temperature Trend, 1880-2014 Section 15: Practical Laboratory Data Dependence of Boiling Point on Pressure Section 16: Health and Safety

Information Threshold Limits for Airborne Contaminants
NBSIR. - 1977

Publications and Services of the Cryogenics Division, National Bureau of Standards, 1953-1977 - Institute for Basic Standards (U.S.). Cryogenics Division 1978

Selected Values of the Crystallographic Properties of Elements - John W. Arblaster 2018-03-01
This reference book presents a unique and comprehensive review of the crystallographic properties of all the elements and will be a valuable resource for metallurgists and crystallographers. The crystallographic properties of the elements are evaluated at ambient pressure in order to provide a base line for high pressure studies. Lattice parameters of the elements are presented as a function of temperature and related properties such as thermal expansion coefficients, molar volumes, and densities are provided. Special attention is given to ensure that the selected values correspond to the latest values of atomic weights and the fundamental constants. The author, John Arblaster spent his career as a metallurgical chemist analyzing a wide variety of ferrous and non-ferrous metals and alloys in a number of commercial laboratories. He first became interested in crystallography in order to solve the dispute over whether osmium or iridium was the densest metal in the room temperature region. He showed, by proper

application of up-to-date input data, that it was in fact osmium. He then produced comprehensive reviews on the crystallographic properties of the six platinum group of metals and has now extended this work to all of the elements.

Polycrystalline Silicon for Integrated Circuits and Displays - Ted Kamins 2012-12-06

Polycrystalline Silicon for Integrated Circuits and Displays, Second Edition presents much of the available knowledge about polysilicon. It represents an effort to interrelate the deposition, properties, and applications of polysilicon. By properly understanding the properties of polycrystalline silicon and their relation to the deposition conditions, polysilicon can be designed to ensure optimum device and integrated-circuit performance. Polycrystalline silicon has played an important role in integrated-circuit technology for two decades. It was first used in self-aligned, silicon-gate, MOS ICs to reduce capacitance and improve circuit speed. In addition to this dominant use, polysilicon is now also included in virtually all modern bipolar ICs, where it improves the basic physics of device operation. The compatibility of polycrystalline silicon with subsequent high-temperature processing allows its efficient integration into advanced IC processes. This compatibility also permits polysilicon to be used early in the fabrication process for trench isolation and dynamic random-access-memory (DRAM) storage

capacitors. In addition to its integrated-circuit applications, polysilicon is becoming vital as the active layer in the channel of thin-film transistors in place of amorphous silicon. When polysilicon thin-film transistors are used in advanced active-matrix displays, the peripheral circuitry can be integrated into the same substrate as the pixel transistors. Recently, polysilicon has been used in the emerging field of microelectromechanical systems (MEMS), especially for microsensors and microactuators. In these devices, the mechanical properties, especially the stress in the polysilicon film, are critical to successful device fabrication. Polycrystalline Silicon for Integrated Circuits and Displays, Second Edition is an invaluable reference for professionals and technicians working with polycrystalline silicon in the integrated circuit and display industries.

Publications of the National Institute of Standards and Technology ... Catalog - National Institute of Standards and Technology (U.S.) 1974

Image Understanding Workshop - 1987

Technical News Bulletin - 1973

Journal of Research of the National Bureau of Standards - United States. National Bureau of Standards 1976