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Surface plasmon resonance (SPR) plays a dominant role in real-time interaction sensing of biomolecular binding events, this book provides a total system description including optics, fluidics and sensor surfaces for a wide researcher audience. For more than 90 years, researchers around the world have relied on the CRC Handbook of Chemistry and Physics for authoritative, up-to-date data. This year will be no exception. Many of the most heavily used tables in the book receive major updates and expansions, most notably: Physical Properties of Inorganic Compounds - Features nearly 25% more compounds Enthalpy of Fusion - Contains updated values and 20% more compounds, especially inorganics Bond Dissociation Energies - Includes 70% more compounds, including for the first time more than 1200 molecular ions Table of the Isotopes - Brought up to date with research results through the year 2005 Inorganic Ion and Ligand Nomenclature - Incorporates new rules from IUPAC for systematic names Chemical Carcinogens - Updated in accordance with the recent report from the National Toxicology Program Global Temperature Trends - Traces the rise in mean global temperature for the last 150 years New references will also help keep readers up to date.

Handbook on the Physics and Chemistry of Rare Earths is a continuous series of books covering all aspects of rare earth science, including chemistry, life sciences, materials science, and physics. The main emphasis of the handbook is on rare

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earth elements [Sc, Y and the lanthanides (La through Lu)], but whenever relevant, information is also included on the closely related actinide elements. The individual chapters are comprehensive, broad, up-to-date, critical reviews written by highly experienced invited experts. The series, which was started in 1978 by Professor Karl A. Gschneidner Jr., combines and integrates both the fundamentals and applications of these elements, now publishing two volumes a year. Individual chapters are comprehensive, broad, critical reviews on the topic of rare earths Contributions are written by highly experienced, invited experts Up-to-date overviews of developments in the field Includes update on many of the closely related actinide elements

The American edition of this handbook contains concise information on the basic physical properties of the elements and on their chemical characteristics. In general, the data selected for inclusion in the handbook are those which either agree well with calculated data (in those cases where calculations could be carried out) or satisfy various correlations, particularly those based on concepts of the distribution of valence electrons of isolated atoms in the formation of a condensed state, as electrons localized at atomic ions in the form of energetically stable configurations, and as nonlocalized electrons. The Russian edition was published in the USSR in 1965, and new or previously omitted data have been added to all the sections of the present edition. In addition, the authors have considered it necessary to include a series of new sections. Thus, a new table has been included, "Electronic Configurations and Ground States of Free Atoms and Their Ions," since, in the ionization of some atoms (particularly for transition metals), the electrons are not always abstracted from the outer shell, and, consequently, calculation of the ground state (electron energy level) using the usual vector model does not give a

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direct result. The ground states are obtained experimentally and the table contains the corresponding data on the configurations and states of triply-ionized atoms (which is usually sufficient).

In a world with access to unlimited amounts of data, how can users who need to make critical scientific and technical decisions find high quality, reliable data? Today, more than ever, the CRC Handbook of Chemistry and Physics remains a hallmark of quality. For over 100 years, the Handbook has provided property data on chemical compounds and all physical particles that have been reported in the literature, carefully reviewed by subject experts. Every year older collections are updated with the latest values and new areas will be added as science progresses. All data are reviewed and evaluated by subject matter experts. Chemical names and property units are standardized, and structures are provided for most substances. Over 380 property tables included. Contains important information on data-related subjects such as chemical and laboratory safety, and nomenclature. A Concise Handbook of Mathematics, Physics, and Engineering Sciences takes a practical approach to the basic notions, formulas, equations, problems, theorems, methods, and laws that most frequently occur in scientific and engineering applications and university education. The authors pay special attention to issues that many engineers and students

Since the publication of the second edition of this handbook in 1993, the field of photochemical sciences has continued to expand across several disciplines including organic, inorganic, physical, analytical, and biological chemistries, and, most recently, nanosciences. Emphasizing the important

role light-induced processes play in all of these fields. 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

This handbook is a guide to current methods of
computational chemistry, explaining their limitations
and advantages and providing examples of their
applications. The first part outlines methods, the
balance of volumes present numerous important

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applications.

Concise Handbook of Mathematics and Physics presents a unified and coherent treatment of all the major aspects of modern elementary physics and mathematics. This complete text/reference includes definitions of fundamental notations and physical and mathematical quantities, formulas that express the laws of physics, axioms and theorems of mathematics, and more. The information is organized logically (instead of alphabetically) for better comprehension and quick, convenient access. The book contains extensive cross-referencing between the mathematical and physical sections, reflecting the considerable overlap between these two areas of study and increasing the usefulness of this handbook. Fundamental concepts, theorems, and laws are demonstrated through numerous practical examples and tasks to help build problem-solving skills.

Continues to be the most accurate, reliable and current resource available on data needed by chemists, physicists and engineers. It provides wide coverage of data on properties of inorganic and organic compounds. Some of the most heavily used tables were recently updated and expanded including: Physical Properties of Inorganic Compounds; Enthalpy of Fusion; Bond Dissociation Energies; Table of the Isotopes; Inorganic Ion and Ligand Nomenclature; Chemical Carcinogens; and

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Global Temperature Trends for the past 150 years. 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 Friction and 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.

The CRC Handbook of Chemistry and Physics, 98th Edition is an update of a classic reference. The 98th Edition contains several new features including, but not limited to - a major update to the table of isotopes, the first major compilation of high quality data of protein-ligand binding thermodynamics, and an important new collection of NMR data critical for understanding outcomes of organic syntheses. Plus, twelve lists have been updated such as, the physical properties of organic compounds and the latest experimental values of bond dissociation energies. Building on the new feature first introduced in the 94th edition, four historical figures in science will be honored on the end plates.

Proudly serving the scientific community for over a century, this 95th 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 95th Edition of the Handbook includes 22 new tables and major 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 Galileo Galilei, James Clerk Maxwell, Marie Sklodowska Curie, and Linus Carl Pauling. 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

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feature two chemists and two physicists. Available in traditional print format, as an eBook, and online, this reference puts physical property data and mathematical formulas used in labs and classrooms every day within easy reach. New tables: Section 8: Analytical Chemistry Figures of Merit Common Symbols Used in Gas and Liquid Chromatographic Schematic Diagrams Varieties of Hyphenated Gas Chromatography with Mass Spectrometry Section 15: Practical Laboratory Data Standard Fittings for Compressed Gas Cylinders Plug and Outlet Configurations for Common Laboratory Devices Section 16: Health and Safety Information Abbreviations Used in the Assessment and Presentation of Laboratory Hazards Incompatible Chemicals Explosion (Shock) Hazards Water-Reactive Chemicals Testing Requirements for Peroxidizable Compounds Tests for the Presence of Peroxides Pyrophoric Compounds - Compounds That Are Reactive with Air Flammability Hazards of Common Solvents Selection of Laboratory Gloves Selection of Respirator Cartridges and Filters Selection of Protective Laboratory Garments Protective Clothing Levels Chemical Fume Hoods and Biological Safety Cabinets Gas Cylinder Safety and Stamped Markings Laser Hazards in the Laboratory General Characteristics of Ionizing Radiation for the Purpose of Practical Application of Radiation Protection Radiation Safety Units Significantly updated and expanded tables: Section 1: Basic Constants, Units, and Conversion Factors Update of Standard Atomic Weights (2013) Update of Atomic Masses and Abundances Section 8: Analytical Chemistry Expansion of Abbreviations and Symbols Used in Analytical Chemistry Section 9: Molecular Structure and Spectroscopy Update of Bond Dissociation Energies Section 12: Properties of Solids Major update and Expansion of Electron Stopping Powers Section 14: Geophysics, Astronomy, and Acoustics Major Update of

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Interstellar Molecules Update of Atmospheric Concentration of Carbon Dioxide, 1958-2013 Update of Global Temperature Trend, 1880-2013 Section 15: Practical Laboratory Data Major update of Reference Points on the ITS-90 Temperature Scale Update of Laboratory Solvents and Other Liquid Reagents Section 16: Health and Safety Information Update of Flammability of Chemical Substances Update of Threshold Limits for Airborne Contaminants to 2013 values Appendix B: Update of Sources of Physical and Chemical Data

Mirroring the growth and direction of science for a century, the CRC Handbook of Chemistry and Physics, now in its 91st edition, continues to be the most accessed and respected scientific reference in the world, used by students and Nobel Laureates. Available in its traditional print format, the Handbook is also available as an innovative interactive product on CD-ROM and online. This year's edition adds many new tables and major revisions ... For the electronic version of the Handbook, go to the CRC Handbook of Chemistry and Physics, CD-ROM 2010 NEW AND UPDATED TABLES FOR THIS EDITION Section 6: Fluid Properties -- New tables on thermophysical properties of selected fluids at saturation and on the dependence of liquid density on temperature and pressure -- Major updates for tables on the density of water and properties of ice and D2O -- Major update and expansion of the table on critical constants of organic compounds Section 8: Analytical Chemistry -- Major updates for tables on the ionization constants of water and heavy water Section 9: Molecular Structure and Spectroscopy -- Updates for tables on atomic radii of the elements, bond dissociation energies, and spectroscopic constants of diatomic molecules Section 10: Atomic, Molecular Structure and Spectroscopy -- Major update for the table on atomic transition probabilities (added new elements) and updates for tables on electron affinities and atomic and molecular

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polarizabilities Section 12: Properties of Solids -- New table on electron stopping powers of elements Section 13: Polymer Properties -- New tables on abbreviations in polymer science and on physical properties of polymers The benchmark of scientific reference since the days of Einstein, Eddington, and Planck, no book is held to a higher standard than the Handbook of Chemistry and Physics. Perpetually vetted for misspellings, miscalculations, misperceptions, and misnomers, it is republished every year, so no mistake needs to be long abided, no enhancement long awaited. The job of editing the Handbook requires not only one who is relentless, driven to perpetually push the level of accuracy one more decimal point, but also one who is humble enough and smart enough to understand that the Handbook, like science itself, is a living, changing thing, and that it is both a record of achievement and a foundation for further improvement of that record. Until this year, the Handbook has been guided through 90 editions by just four editors. The last, David Lide, guided the book through 20 editions. Perhaps most importantly, Dr. Lide guided the Handbook into the electronic age, overseeing the creation and the continual improvement of interactive web and CD versions that have now become staples in every research library of note.

CRC Handbook of Chemistry and Physics, 93rd Edition
CRC Press

Presents a history of physics, examining the theories and experimental practices of the science.

Up-to-Date Coverage of All Chemical Engineering Topics?from the Fundamentals to the State of the Art Now in its 85th Anniversary Edition, this industry-standard resource has equipped generations of engineers and chemists with vital information, data, and insights. Thoroughly revised to reflect the latest technological advances and processes, Perry's Chemical Engineers' Handbook, Ninth Edition,

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provides unsurpassed coverage of every aspect of chemical engineering. You will get comprehensive details on chemical processes, reactor modeling, biological processes, biochemical and membrane separation, process and chemical plant safety, and much more. This fully updated edition covers:

- Unit Conversion Factors and Symbols
- Physical and Chemical Data including Prediction and Correlation of Physical Properties
- Mathematics including Differential and Integral Calculus, Statistics, Optimization
- Thermodynamics
- Heat and Mass Transfer
- Fluid and Particle Dynamics
- Reaction Kinetics
- Process Control and Instrumentation
- Process Economics
- Transport and Storage of Fluids
- Heat Transfer Operations and Equipment
- Psychrometry, Evaporative Cooling, and Solids Drying
- Distillation
- Gas Absorption and Gas-Liquid System Design
- Liquid-Liquid Extraction Operations and Equipment
- Adsorption and Ion Exchange
- Gas-Solid Operations and Equipment
- Liquid-Solid Operations and Equipment
- Solid-Solid Operations and Equipment
- Chemical Reactors
- Bio-based Reactions and Processing
- Waste Management including Air, Wastewater and Solid Waste Management
- Process Safety including Inherently Safer Design
- Energy Resources, Conversion and Utilization
- Materials of Construction

FROM THE PUBLISHER: Oswaal Books is happy to announce the launch of Oswaal Handbooks for Physics, Chemistry, Biology & Mathematics which will supplement the need for concept clarity at every step of study. The Handbooks will act as Exam Reckoners for preparation of various Engineering & Medical competitive exams. These books are compact reference books and are the best for chapter-wise & topic wise preparation.

IMPORTANT FEATURES OF THE BOOK: A Topper's

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Ready Reckoner Topper's Handbook will act like a universal reckoner for students at every stage of their study. These come for Physics, Chemistry- both Organic & Inorganic, Mathematics & Biology. WHAT THIS BOOK HAS FOR YOU: Oswaal Exam Tools Exam tools like Concepts Clarified, Important Formulae, Mind / Concept Maps are included in the handbooks. These make registration of concepts easier. Tips to crack various Exams Tips given by experts will ensure that by studying from these books, a student can write his paper well, get the best result & top rank! Real Time Videos for Hybrid Learning Real time Videos have been given for a digital edge. About Oswaal Books: We feel extremely happy to announce that Oswaal Books has been awarded as 'The Most Promising Brand 2019' by The Economic Times. This has been possible only because of your trust and love for us. Oswaal Books strongly believes in Making Learning Simple. To ensure student-friendly, yet highly exam-oriented content, we take due care in developing our Panel of Experts. Accomplished teachers with 100+ years of combined experience, Subject Matter Experts with unmatched subject knowledge, dynamic educationists, professionals with a keen interest in education and topper students from the length and breadth of the country, together form the coveted Oswaal Panel of Experts. It is with their expertise, guidance and a keen eye for details that the content in each offering meets the need of the students. No wonder, Oswaal Books holds an enviable place in every student's heart! The enormous success of the CRC Handbook of Chemistry and Physics results from many factors,

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including the attention, expertise, and commitment to excellence that Dr. Lide contributes as the Handbook's Editor-in-Chief. When updating and creating each new edition, Dr. Lide balances new and revised material with the content of existing tables to ensure that the "Four Cs" are met:

To this Eighth Edition of the late Mr William Gardner's Chemical Synonyms and trade Names there have been added some 3,300 new entries, principally in the field of plastics, alloys and pharmaceuticals. A number of entries describing products known to the Editors to be no longer commercially available have been deleted, with the principal object of keeping the bulk of the book within reasonable bounds; but it has been possible to add nearly 400 names to the Index of Manufacturers to be found at the end of the book. The sum of these additions and deletions represents a net increase of about 10 per cent, in the scope of this Eighth Edition as compared with its predecessor published in 1971.

With over 6,000 entries, CRC Standard Mathematical Tables and Formulae, 32nd Edition continues to provide essential formulas, tables, figures, and descriptions, including many diagrams, group tables, and integrals not available online. This new edition incorporates important topics that are unfamiliar to some readers, such as visual proofs and sequences, and illustrates how mathematical information is interpreted. Material is presented in a multisectional format, with each section containing a valuable collection of fundamental tabular and expository reference material. New to the 32nd Edition A new chapter on Mathematical Formulae from the Sciences

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that contains the most important formulae from a variety of fields, including acoustics, astrophysics, epidemiology, finance, statistical mechanics, and thermodynamics New material on contingency tables, estimators, process capability, runs test, and sample sizes New material on cellular automata, knot theory, music, quaternions, and rational trigonometry Updated and more streamlined tables Retaining the successful format of previous editions, this comprehensive handbook remains an invaluable reference for professionals and students in mathematical and scientific fields.

The Handbook of Fiber Chemistry, Third Edition provides complete coverage of scientific and technological principles for all major natural and synthetic fibers. Incorporating new scientific techniques, instruments, characterization, and processing methods, the book features important technological advances from the past decade, particularly in fiber production and novel applications. It contains the latest data and insight into the chemistry and structural properties made possible by these advances. Authored by leading experts in the field of fiber science, most chapters in this third edition of a bestseller are either new or extensively updated. Chapters on synthetic fibers detail their formation from monomers, while those on natural fibers cover extraction and purification methods. Each chapter encompasses definitions, morphology, and fine structure; properties, testing, processing methods, and equipment; and the conversion into marketable products. Taking into account the recent expansion and diversification of markets for various fibers, this book also offers a solid foundation in

the principles used for developing new fibers, including biologically and electronically active fibers. The Handbook of Fiber Chemistry, Third Edition offers a better understanding of the structure–property relationships of fibers and fiber-related phenomena. It is an ideal volume for scientists, technologists, and engineers working to develop novel and innovative products and technologies using natural and synthetic fibers.

Literally thousands of elementary particles have been discovered over the last 50 years, their properties measured, relationships systematized, and existence and behavior explained in a myriad of cleverly constructed theories. As the field has grown so impressively, so has its jargon. Until now, scientists in other fields have had no single resource from which they can quickly reference an idea, acronym, or term and find an accessible definition and explanation. The Handbook of Particle Physics fills that void. This unique work contains, in encyclopedic form, terms of interest in particle physics, including its peculiar jargon. It covers the experimental and theoretical techniques of particle physics along with terms from the closely related fields of astrophysics and cosmology. Designed primarily for non-specialists with a basic knowledge of quantum mechanics and relativity, the entries preserve a degree of rigor by providing the relevant technical and mathematical details. Clear and engaging prose, numerous figures, and historical overviews complement the handbook's convenience both as a reference and as an invitation into the fascinating world of particle physics.

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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.

Provides chemical and physical data

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