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as a function of momentum, by W. Peter Trower Astrophysical Formulae Multiple Light Scattering Fundamentals of Physics 7th Edition Volume 1 with EGrade Plus Set Handbook of Optical Systems, Volume 2 Karina Garcia's Next-Level DIY Slime Ugly's Electric Motors & Controls, 2017 Edition High-energy Particle Data Transport Properties of Chemicals and Hydrocarbons Particle Physics Fundamentals of Physics 7th Edition Part 1 (Chapters 1-11) with Wiley Plus Set Surface Tension of Pure Liquids and Binary Liquid Mixtures Applied Mathematical and Physical Formulas Handbook of Physics Static Dielectric Constants of Pure Liquids and Binary Liquid Mixtures Spectroscopic Data Astrophysical Formulae Handbook of Optical Systems, Volume 2 Paramètres Des Raies de la Vapeur D'eau Des Micro-ondes À L'infrarouge Moyen International Tables for Crystallography, Volume B Handbook of Purified Gases Book of Data Transport Properties of Fluids

Water Vapour Line Parameters from Microwave to Medium Infrared (An Atlas of H₂ 16O, H₂ 17O, and H₂ 18O Line Positions and Intensities Between 0 and 4350cm⁻¹) is the culmination of long-range effort and represents a large amount of analysis and calculations relating to the properties of water molecules. The text is divided into major parts. The first half discusses the theories, and the second half presents the atlas. The atlas provides the position, the intensity, the lower energy level, the rotational and vibrational quantum numbers of the upper and lower levels, and the isotropic species. The book will be of great

interest to scientists from various fields, such as chemical physics, molecular physics, and astrophysics. The state-of-the-art full-colored handbook gives a comprehensive introduction to the principles and the practice of calculation, layout, and understanding of optical systems and lens design. Written by reputed industrial experts in the field, this text introduces the user to the basic properties of optical systems, aberration theory, classification and characterization of systems, advanced simulation models, measuring of system quality and manufacturing issues. In this Volume Volume 2 continues the introduction given in volume 1 with the more advanced texts about the foundations of image formation. Emphasis is placed on an intuitive while theoretically exact presentation. More than 400 color graphs and selected references on the end of each chapter support this undertaking. From the contents: 17 Wave equation 18 Diffraction 19 Interference and coherence 20 Imaging 21 Imaging with partial coherence 22 Three dimensional imaging 23 Polarization 24 Polarization and optical imaging A1 Mathematical appendix Other Volumes Volume 1: Fundamentals of Technical Optics Volume 3: Aberration Theory and Correction of Optical Systems Volume 4: Survey of Optical Instruments Volume 5: Advanced Physical Optics Volume I/22A is the first of two volumes dedicated to nuclear binding energies and atomic masses of all nuclei. Related properties like the separation energies of single nucleons, or groups of nucleons, Q-values of alpha and beta nuclear reactions, and parameters of the residual interaction between nucleons, are considered as well. Also the

experimental values are compared to the results of various model calculations. This comparison of experimental and theoretical results may help in the further development of nuclear theory. The data presented will also be of great significance for astrophysics and the understanding of the production of elements in the early universe. The present compilation was prepared by two eminent experts in the field. One of the characteristics of Landolt-Börnstein is that data are evaluated before they are accepted for compilation. The idea is to present 'best values' which can be used with confidence by non-experts. Volume I/22A contains the data for 1111 nuclei with Z ranging from 1 to 54. In view of the large amount of data available some of the information is given online only at www.springerlink.com (DOI: 10.1007/978-3-540-69945-3). Parameters for nuclear levels of many nuclei were previously published by Landolt-Börnstein in Volumes I/16, I/18, and I/19. The aim of this 3-volume reference is to present accurate, reliable and up-to-date information on the physical properties of group IV elemental semiconductors (Vol. 1), III-V compound semiconductors (Vol. 2) and II-VI semiconductors (Vol. 3). The data on the physical properties of each material are organized in the same way throughout these volumes to facilitate searching for information. The physical properties considered in these volumes can be classified into 12 groups: structural properties; -thermal properties; -elastic properties; -phonons and lattice vibronic properties; -collective effects and related properties; -energy-band structure: energy-band gaps; -energy-band structure: electron and

hole effective mass; -electronic deformation potential; -electron affinity and Schottky barrier height; -optical properties; -elasto optic, electro optic and nonlinear optical properties; and, -carrier transport properties. An extensive bibliography is included for those who wish to find additional information. This is a reproduction of a book published before 1923. This book may have occasional imperfections such as missing or blurred pages, poor pictures, errant marks, etc. that were either part of the original artifact, or were introduced by the scanning process. We believe this work is culturally important, and despite the imperfections, have elected to bring it back into print as part of our continuing commitment to the preservation of printed works worldwide. We appreciate your understanding of the imperfections in the preservation process, and hope you enjoy this valuable book. This book is meant to be a reference source for the fundamental formulae of astrophysics. Wherever possible, the original source of the material being presented is referenced, together with references to more recent modifications and applications. More accessible reprints and translations of the early papers are also referenced. In this way the reader is provided with the often ignored historical context together with an orientation to the more recent literature. Any omission of a reference is, of course, not meant to reflect on the quality of its contents. In order to present a wide variety of concepts in one volume, a concise style is used and derivations are presented for only the simpler formulae. Extensive derivations and explanatory comments may be found in the original references or in the books listed in the

selected bibliography which follows. Following the convention in astrophysics, the C. g. S. (centimeter-gram-second) system of units is used unless otherwise noted. To conserve space, the fundamental constants are not always defined, and unless otherwise noted the following symbols have the following meaning and value.

Symbol	Meaning	Value
c	Speed of light in vacuum	$2.997924562(11) \times 10^{10}$ cm S ⁻¹
h	Planck's constant	$6.626196(50) \times 10^{-27}$ erg s
\hbar	Rationalized Planck's constant	$1.0545919(80) \times 10^{-27}$ erg s
k	Boltzmann's constant	$1.380622(59) \times 10^{-16}$ erg K ⁻¹

4. The state-of-the-art full-colored handbook gives a comprehensive introduction to the principles and the practice of calculation, layout, and understanding of optical systems and lens design. Written by reputed industrial experts in the field, this text introduces the user to the basic properties of optical systems, aberration theory, classification and characterization of systems, advanced simulation models, measuring of system quality and manufacturing issues. In this Volume Volume 2 continues the introduction given in volume 1 with the more advanced texts about the foundations of image formation. Emphasis is placed on an intuitive while theoretically exact presentation. More than 400 color graphs and selected references on the end of each chapter support this undertaking. From the contents: 17 Wave equation 18 Diffraction 19 Interference and coherence 20 Imaging 21 Imaging with partial coherence 22 Three dimensional imaging 23 Polarization 24 Polarization and optical imaging A1 Mathematical appendix Other Volumes Volume 1: Fundamentals of Technical Optics Volume 3:

Aberration Theory and Correction of Optical Systems Volume 4: Survey of Optical Instruments Volume 5: Advanced Physical Optics 1 Introduction Data extract from Landolt-Börnstein IV/17: Static Dielectric Constants of Pure Liquids and Binary Liquid Mixtures 1. 1 Selection of data This supplement updates Landolt-Börnstein's New Series Group IV (Physical Chemistry) Volume 6, Static Dielectric Constants of Pure Liquids and Binary Liquid Mixtures, published in the year 1991 [1991WOH1]. The update provides experimental data published in the years 1991 to 2006. The final date for including data was December, 31st, 2006. Specialization and selection of data for this new update follows the intentions of the original volume. The focus is on non-electrolyte systems, and only data for pure liquids and binary liquid mixtures at normal pressure (or in some single cases at the saturation vapor pressure) were taken into account for this volume. No data at higher pressures were collected, no data for the gaseous state, and no data for dielectric relaxation processes at higher frequencies have been included. For mixtures, this data collection is restricted to binary liquid mixtures, i. e. no ternary systems and also no solutions of any solids, salts, electrolytes, polymers are included here. At least, also molten metals and metallic alloys, molten salts, molten glasses and other high-temperature melts were not taken into account. As the amount of data collected between 1991 and 2006 exceeds the available space for printing by far, the volume has an electronic version containing additional data which is available on www.landolt-boernstein.de. Band 1. International Tables for

Crystallography are no longer available for purchase from Springer. For further information please contact Wiley Inc. (follow the link on the right hand side of this page). Volume B presents accounts of the numerous aspects of reciprocal space in crystallographic research. After an introductory chapter, Part 1 presents the reader with an account of structure-factor formalisms, an extensive treatment of the theory, algorithms and crystallographic applications of Fourier methods, and fundamental as well as advanced treatments of symmetry in reciprocal space. In Part 2, these general accounts are followed by detailed expositions of crystallographic statistics, the theory of direct methods, Patterson techniques, isomorphous replacement and anomalous scattering, and treatments of the role of electron microscopy and diffraction in crystal structure determination, including applications of direct methods to electron crystallography. Part 3 deals with applications of reciprocal space to molecular geometry and 'best'-plane calculations, and contains a treatment of the principles of molecular graphics and modelling and their applications. A convergence-acceleration method of importance in the computation of approximate lattice sums is presented and the part concludes with a discussion of the Ewald method. Part 4 contains treatments of various diffuse-scattering phenomena arising from crystal dynamics, disorder and low dimensionality (liquid crystals), and an exposition of the underlying theories and/or experimental evidence. Polymer crystallography and reciprocal-space images of aperiodic crystals are also treated. Part 5 of the volume contains introductory treatments of the theory

of the interaction of radiation with matter (dynamical theory) as applied to X-ray, electron and neutron diffraction techniques. The simplified trigonometric expressions for the structure factors in the 230 three-dimensional space groups, which appeared in Volume I of International Tables for X-ray Crystallography, are now given in Appendix 1.4.3 to Chapter 1.4 of this volume. Volume B is a vital addition to the library of scientists engaged in crystal structure determination, crystallographic computing, crystal physics and other fields of crystallographic research. Graduate students specializing in crystallography will find much material suitable for self-study and a rich source of references to the relevant literature. This book, which is published in two volumes, studies heat transfer problems by modern numerical methods. Basic mathematical models of heat transfer are considered. The main approaches to the analysis of the models by traditional means of applied mathematics are described. Numerical methods for the approximate solution of steady and unsteady-state heat conduction problems are discussed. Investigation of difference schemes is based on the general stability theory. Much emphasis is put on problems in which phase transitions are involved and on heat and mass transfer problems. Problems of controlling and optimizing heat processes are discussed in detail. These processes are described by partial differential equations, and the main approaches to numerical solution of the optimal control problems involved here are discussed. Aspects of numerical solution of inverse heat exchange problems are considered. Much attention is paid to the most important applied problems of

identifying coefficients and boundary conditions for a heat transfer equation. This first volume considers the mathematical models of heat transfer, classic analytical solution methods for heat conduction problems, numerical methods for steady-state and transient heat conduction problems, and phase change problems. The second volume presents solution techniques for complicated heat transfer problems (radiation, convection, thermoelasticity, thermal process control and inverse problems) as well as some examples of solving particular heat transfer problems. Technical gases are used in almost every field of industry, science and medicine and also as a means of control by government authorities and institutions and are regarded as indispensable means of assistance. In this complete handbook of purified gases the physical foundations of purified gases and mixtures as well as their manufacturing, purification, analysis, storage, handling and transport are presented in a comprehensive way. This important reference work is accompanied with a large number of Data Sheets dedicated to the most important purified gases. Nail your next physics exam and prepare yourself for the next level of physics education Physics isn't the easiest part of high school, but it doesn't have to be pull-your-hair-out hard. In Physics I Workbook For Dummies, you get practical guidance to reinforce what you already know and master new physics concepts. You'll gain confidence in critical subject areas like motion, thermodynamics, and electromagnetism while setting yourself up for success in college- and university-level physics courses. This book offers hands-on practice exercises

in the book and on an online test bank that come with plain-English answers and step-by-step explanations so you can see what you did right and where you need practice. The perfect combination of instruction and application, *Physics I Workbook For Dummies* also provides: Understandable explanations of central physics concepts and the techniques you need to solve common problems Practice questions with complete answer explanations to test your knowledge as you progress Highlights of the ten most common pitfalls and traps that students encounter in physics assignments and exams and how to avoid them A collection of the ten most useful online physics resources, along with free, 1-year access to online chapter quizzes Whether you're planning to tackle the MCAT one day or just want to improve your performance on your next physics test, *Physics I Workbook For Dummies* offers you an opportunity to master a rewarding and challenging subject that unlocks countless educational and career opportunities. Updated to reflect the 2017 National Electrical Code (NEC), this essential pocket guide uses new full-color diagrams, calculations, and quick explanations to provide the most commonly required information on the design, installation, application, and maintenance of motors and controls. This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important

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prisms 14 Gratings 15 Special components 16 Testing Other Volumes Volume 2: Physical Image Formation Volume 3: Aberration Theory and Correction of Optical Systems Volume 4: Survey of Optical Instruments Volume 5: Advanced Physical Optics This book presents the foundations of nuclear physics, covering several themes that range from subatomic particles to stars. Also described in this book are experimental facts relating to the discovery of the electron, positron, proton, neutron and neutrino. The general properties of nuclei and the various nuclear de-excitation processes based on the nucleon layer model are studied in greater depth. This book addresses the conservation laws of angular momentum and parity, the multipolar transition probabilities E and M, gamma de-excitation, internal conversion and nucleon emission de-excitation processes. The fundamental properties of α and β disintegrations, electron capture, radioactive fissions, and Bateman equations are also examined. Nuclear Physics 1 is intended for high school physics teachers, students, research teachers and science historians specializing in nuclear physics. 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 volume is a compilation of vapor–liquid equilibrium data on subcritical binary single-phase or two-phase liquid–liquid systems. It provides a standard reference book with selected and easily retrievable data from the fields of physics and chemistry collected by acknowledged international scientists. The primary goal of this text is to provide students with a solid understanding of fundamental physics concepts, and to help them apply this conceptual understanding to quantitative problem solving. Handbook of Physics is a veritable toolbox for rapid access to a wealth of physics information for everyday use in problem solving, homework, and examinations. This complete reference includes not only the fundamental formulas of physics but also experimental methods used in practice. This popular text contains physics and chemistry data suitable for all A Level Physics and Chemistry students. Written by one of the world's leading theoretical physicists, this comprehensive volume offers a thorough overview of elementary particle physics and discusses progress in the field over the past two decades.

The book forges links between new theoretical concepts and long-established facts in a style that both experts and students will find readable, informative, and challenging. A special section explains the use of relativistic quantum units, enabling readers to carry out back-of-the-envelope dimensional estimates. This ambitious book opens the door to a host of intriguing possibilities in the field of high-energy physics. During the preparation of this compilation, many people contributed; the compilers wish to thank all of them. In particular they appreciate the efforts of V. Gilbertson, the manuscript typist, and those of K. C. Bregand, J. A. Kiley, and W. H. McPherson, who gave editorial assistance. They would like to thank Dr. J. R. Schwartz for his cooperation and encouragement. In addition, they extend their gratitude to Dr. L. Wilson of the Air Force Weapons Laboratory, who gave the initial impetus to this project.

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1. INTRODUCTION In recent years, the need for a complete collection of information relevant to diatomic molecules has become evident. Several excellent collections of this type of information have been available for many years (Refs. 1-3); however, the state of our collective knowledge has been considerably expanded since their publication. The frequent use of well known critical data handbooks like Beilstein, Gmelin and Landolt-Bomstein is impeded by the fact that merely larger libraries - often far away from the scientist's working place - can afford such precious collections. To satisfy an urgent need of many scientists working in the field of semiconductor physics for having at their working place a comprehensive, high quality, but cheap collection of at least the basic data of their field of interest this volume contains the most important data of semiconductors. All data were compiled from information on semiconductors presented on more than 6000 pages in various volumes of the New Series of Landolt-Bomstein. We hope to meet the needs of the community of semiconductor physicists with this volume, forming

a bridge between the laboratory and additional information sources in the libraries. The Editor Marburg, January 1996

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[1997WOH1]. The update provides experimental data published in the years 1997 to 2006. The final date for including data was December, 31st, 2006. Specialization and selection of data for this new update follows the intentions of the original volume. The focus is on non-electrolyte systems, and only data for pure liquids and binary liquid mixtures at normal pressure (or in some single cases at saturation vapor pressure) were taken into account for this volume. For mixtures, this data collection is restricted to binary liquid mixtures, i.e. no ternary systems and also no solutions of any solids, salts, electrolytes, polymers are included here. Surfactant solutions or micellar systems in water or other fluids were not considered either. At least, also molten metals and metallic alloys, molten salts, molten glasses and other high-temperature melts were not taken into account. As the amount of data collected between 1997 and 2006 exceeds the available space for printing by far, the volume has an electronic version containing additional data which is available on www.landolt-boernstein. Multiple Light Scattering: Tables, Formulas, and Applications, Volume 1 serves to give concise and handy information related to multiple scattering theory in such a way that the reader would not have to rely on extensive literature on the subject. The book is divided into two parts. Part I: General Theory covers the basic concepts, terms, and notations related to multiple scattering theory; exponential integrals and related functions; reciprocity and detailed balance; different related methods; and homogenous atmospheres with arbitrary phase function and single-scattering albedo. Part II: Isotropic

Scattering discusses related concepts such as solutions using the Milne operator; semi-infinite atmospheres; the H-functions; and finite slabs. The text is recommended for practitioners in optics, atmospheric physics, astronomy, and other fields that need a reference book in the subject of multiple light scattering. The new and revised version of this comprehensive pocket reference guide is ideal for anyone who deals with physics, chemistry, mathematics, finance, and computer systems and needs to review or quickly refresh their memory of what they studied in school. It covers the fundamentals of arithmetic, algebra, geometry, trigonometry, and analytical geometry, and statistics, and presents the application of differential equations and integral calculus. It reveals the comparative advantages of binomial distribution, standard distribution, Poisson distribution, and normal distribution, and includes most used definitions and formulas of kinematics, dynamics, statics, mechanics of fluids, thermal variable of state, thermodynamics, electricity and magnetism, light, and atomic and nuclear physics. It also presents applications and solutions to problems concerning simple interest, compound interest, effective rate, annuity, amortization of loans, and sinking fund payments. Features A quick reference for engineers, technicians, toolmakers, machinists, students, and teachers. Includes more than 1,300 formulas, definitions, and figures used in mathematics and physics, plus complete coverage of S.I., metric, and U.S. customary units. New to this revised edition are sections on arithmetic, mathematical fundamentals of computer science,

units of measure in precious metals, and more. Key topics have been clarified, and more than 150 line illustrations have been improved. The index has been expanded to help guide readers through this information-packed reference. Create the most mind-blowing slimes at home with these 15 all-new, super-fun, borax-free recipes from YouTube sensation Karina Garcia. In her follow-up to the bestselling Karina Garcia's DIY Slime, Karina provides recipes with new and mesmerizing scents, textures, and shine. From Mermaid Dream Fishbowl Slime to Teddy Bear Slime, you'll love creating these amazing slimes for you, your family, and friends. This full-color book contains easy-to-follow, step-by-step instructions for: Holographic, Super Gloss, Ultra Crunch, Color Changing, Instant Clear, Slushee, Butter, Peanut Butter & Jelly, Cloud, Candle, Jam, Highlighter, Cereal, Fishbowl, and the Thickest of All slime-with crazy, cool modifications! Plus, Karina shares personal tips on removing slime from clothing, keeping slime fresh, and becoming a professional slimer. You'll become a slime master with this master-slimer advice. All recipes are borax-free. Perfect for birthdays, rainy days, and fun days, this is a must-have title for Karina Garcia's over 7 million fans and all crafters ages 10 and up.

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