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HACCP Principles and Applications Springer Science & Business Media The Institute of Food Technologists (IFT) sponsors each year a two-day short course that covers a topic of major importance to the food industry. "Hazard Analysis and Critical Control Points" was the title for the short course which was held May 31-June 1, 1991, immediately prior to the 51st Annual IFT Meeting. These short courses have been published as a proceedings in previous years; however, the current and future importance of the Hazard Analysis and Critical Control Point (HACCP) system prompted publication of the 1991 short course as a book. This book is designed to serve as a reference on the principles and application of HACCP for those in quality control/assurance, technical management, education and related areas who are responsible for food safety management. The National Advisory Committee on Microbiological Criteria for Foods (NACMCF) published in November 1989 a pamphlet titled "HACCP Principles for Food Production" (Appendix A). This document dealt with HACCP as applied to the microbiological safety of foods; however, the principles can be modified to apply to chemical, physical and other hazards in foods. The principles recommended by the NACMCF have been widely recognized and adopted by the food industry and regulatory agencies. Implementation of these principles provides a proactive, preventive system for managing food safety. HACCP should be applied at all stages of the food system, from production to consumption. **Economics: Principles and Applications Project Management Systems, Principles, and Applications, Second Edition** CRC Press The goal of the new edition is to continue with a systems view of the world. For a more robust and worldwide market dissemination, the new edition has changed to a reference book. The project systems approach to project management, is needed in executing projects across countries and across cultures, which is a crucial requirement in today's globalized and intertwined economics. The book uses ample graphical representations to clarify the concepts and techniques presented. The case examples help to reinforce the topics covered. Several illustrative examples and practice exercises are included. Each chapter is updated and new chapters include Project Simulation and Project Templates. A new chapter on managing complex projects in an age of artificial intelligence adds a unique value to the book. Features Highlights contemporary best practices of project management Uses a systems framework to integrate quantitative and qualitative tools Offers illustrative examples and practice exercises Covers project schedule performance appraisal techniques Discusses the knowledge areas contained in the Project Management Book of Knowledge (PMBOK) Presents software applications for project management, as well as case examples **Principles and Applications of Biostatistics** Jones & Bartlett Learning Principles and Applications of Biostatistics covers the primary concepts and methods that are required for a fundamental understanding of the use and interpretation of statistics for the biological and health sciences—from data presentation to multiple regression and analysis of variance. With a focus clarity, brevity, and accuracy, this text provides understandable and focused explanation of statistical principles and applications along with practical examples (provided in R and Microsoft Excel) and problems drawn from biological health and medical settings. Key Features: • Practical questions follow each problem to encourage students to consider why the problem likely exists, help formulate hypotheses, and then statistically assess those hypotheses. • Abundant assignment problems at the end of sections and each chapter cover a variety of application areas of biostatistics. • Rationale boxes offer explanations of why certain methods are used for specific cases. **Biotechnology Principles and Applications** Alpha Science International Limited Forming a wide and comprehensive coverage of the fundamental aspects of biotechnology, Biotechnology: Principles and Applications serves as the perfect guide for students in understanding the principles and applied aspects of the field. **Image Processing Principles and Applications** John Wiley & Sons Image processing—from basics to advanced applications Learn how to master image processing and compression with this outstanding state-of-the-art reference. From fundamentals to sophisticated applications, Image Processing: Principles and Applications covers multiple topics and provides a fresh perspective on future directions and innovations in the field, including: * Image transformation techniques, including wavelet transformation and developments * Image enhancement and restoration, including noise modeling and filtering * Segmentation schemes, and classification and recognition of objects * Texture and shape analysis techniques * Fuzzy set theoretical approaches in image processing, neural networks, etc. * Content-based image retrieval and image mining * Biomedical image analysis and interpretation, including biometrical algorithms such as face recognition and signature verification * Remotely sensed images and their applications * Principles and applications of dynamic scene analysis and moving object detection and tracking * Fundamentals of image compression, including the JPEG standard and the new JPEG2000 standard Additional features include problems and solutions with each chapter to help you apply the theory and techniques, as well as bibliographies for researching specialized topics. With its extensive use of examples and illustrative figures, this is a superior title for students and practitioners in computer science, wireless and multimedia communications, and engineering. **Computational Fluid Dynamics: Principles and Applications** Elsevier Computational Fluid Dynamics (CFD) is an important design tool in engineering and also a substantial research tool in various physical sciences as well as in biology. The objective of this book is to provide university students with a solid foundation for understanding the numerical methods employed in today's CFD and to familiarise them with modern CFD codes by hands-on experience. It is also intended for engineers and scientists starting to work in the field of CFD or for those who apply CFD codes. Due to the detailed index, the text can serve as a reference handbook too. Each chapter includes an extensive bibliography, which provides an excellent basis for further studies. **Ecology Principles and Applications** Cambridge University Press This is a comprehensive textbook for A-level students and first-year undergraduates taking courses in biology, geography and Earth sciences. **The Environment Principles and Applications** Psychology Press This second edition provides an account of modern environmental issues and the physical and socio-economic framework in which they are set. It explains the principles and applications of the different parts of the Earth's system: the lithosphere, atmosphere, hydrosphere and biosphere, and explains the interrelationships within and between these systems. It explores the present environmental crisis, examines how the planet Earth fits in the wider universe and explores human-environment interactions. (Midwest). **Digital Principles and Applications Principles and Applications of Antimicrobial Nanomaterials** Elsevier Principles and Applications of Antimicrobial Nanomaterials introduces the reader to the microbial world, antimicrobial nanomaterials, how microbial evolution works, and how knowledge of these areas can facilitate the development of sustainable antimicrobials. Due to the widespread occurrence of multidrug-resistant microbes, there is an increasing interest in the use of novel nanostructured materials as antimicrobials. This book is designed to help researchers from fields such as materials science, nanoscience, and nanoengineering who are attempting to develop these antimicrobial materials. Provides crucial background in microbiology and microbial evolution to help researchers design experiments that can produce sustainable results Offers detailed coverage on the antimicrobial properties of different types of nanomaterials Discusses the major challenges of using nanomaterials for antimicrobial applications **Activity-Based Intelligence: Principles and Applications** Artech House This new resource presents the principles and applications in the emerging discipline of Activity-Based Intelligence (ABI). This book will define, clarify, and demystify the tradecraft of ABI by providing concise definitions, clear examples, and thoughtful discussion. Concepts, methods, technologies, and applications of ABI have been developed by and for the intelligence community and in this book you will gain an understanding of ABI principles and be able to apply them to activity based intelligence analysis. The book is intended for intelligence professionals, researchers, intelligence studies, policy makers, government staffers, and industry representatives. This book will help practicing professionals understand ABI and how it can be applied to real-world problems. **Clinical Engineering** CRC Press A volume in the Principles and Applications in Engineering series, Clinical Engineering focuses on managing the deployment of medical technology and integrating it appropriately with desired clinical practices. It provides a description of the wide range of responsibilities clinical engineers encounter, describes technology management and assessment **Smart Cities Foundations, Principles, and Applications** John Wiley & Sons Provides the foundations and principles needed for addressing the various challenges of developing smart cities Smart cities are emerging as a priority for research and development across the world. They open up significant opportunities in several areas, such as economic growth, health, wellness, energy efficiency, and transportation, to promote the sustainable development of cities. This book provides the basics of smart cities, and it examines the possible future trends of this technology. Smart Cities: Foundations, Principles, and Applications provides a systems science perspective in presenting the foundations and principles that span multiple disciplines for the development of smart cities. Divided into three parts—foundations, principles, and applications—Smart Cities addresses the various challenges and opportunities of creating smart cities and all that they have to offer. It also covers smart city theory modeling and simulation, and examines case studies of existing smart cities from all around the world. In addition, the book: Addresses how to develop a smart city and how to present the state of the art and practice of them all over the world Focuses on the foundations and principles needed for advancing the science, engineering, and technology of smart cities—including system design, system verification, real-time control and adaptation, Internet of Things, and test beds Covers applications of smart cities as they relate to smart transportation/connected vehicle (CV) and Intelligent Transportation Systems (ITS) for improved mobility, safety, and environmental protection Smart Cities: Foundations, Principles, and Applications is a welcome reference for the many researchers and professionals working on the development of smart cities and smart city-related industries. **Principles, Methods, and General Applications Analytical Methods for Pesticides, Plant Growth Regulators, and Food Additives** Elsevier Analytical Methods for Pesticides, Plant Growth Regulators, and Food Additives, Volume 1: Principles, Methods, and General Applications provides information on analytical techniques useful for the determination of pesticides, plant growth regulators, and food additives. The book discusses the potential hazard of minute residues to human and animal health; the principles of formulation and residue analyses; and the principles of food additive analysis. The text also describes the extraction and clean-up procedures; and the principles of toxicological testing methods. The methods for pesticide analysis in meat products; and the formulation and residue analysis in government laboratories are also considered. The book further tackles other methods, such as spectrophotometric methods, chromatography, isotope methods, enzymatic methods; and bioassay. Agricultural toxicologists and people studying pesticides and food additives will find the text invaluable. **Maximum Principles and Their Applications** Academic Press Maximum Principles and Their Applications **Physics Principles with Applications** Addison-Wesley Longman **Heat Transfer Principles and Applications** Academic Press Heat Transfer Principles and Applications is a welcome change from more encyclopedic volumes exploring heat transfer. This shorter text fully explains the fundamentals of heat transfer, including heat conduction, convection, radiation and heat exchangers. The fundamentals are then applied to a variety of engineering examples, including topics of special and current interest like solar collectors, cooling of electronic equipment, and energy conservation in buildings. The text covers both analytical and numerical solutions to heat transfer problems and makes considerable use of Excel and MATLAB(R) in the solutions. Each chapter has several example problems and a large, but not overwhelming, number of end-of-chapter problems. **Photonic Crystals Principles and Applications** CRC Press This book provides a broad overview of photonic crystals and, as the title suggests, covers their principles and applications. It is written from a physics point of view with an emphasis on materials science. Equations are well explained and often completely avoided to increase the readability of the book. The book is divided into eight chapters, starting with a brief introduction. The second chapter deals with different dimensionalities of the photonic crystals and their properties. The third chapter is very interestingly written and provides a survey of the various synthesis methods used for production of photonic crystals, including chemical routes, lithography, and self-assembly of colloidal photonic crystals. Chapters 4-8 constitute the bulk of the book and provide examples of applications of these photonic crystals. Chapter 4 offers a good explanation of optical switching. Bandgap and defect mode switching are also brought into focus along with many other mechanisms—14 different switching mechanisms in all, including thermal, electro, and magneto switching. Frequency tuning of photonic crystal filters with special attention to nanosize photonic crystals is illustrated, providing a direct perspective on applications of these materials in integrated photonic circuits. The transition from chapter 5 to 6 dealing with photonic crystal lasers is smooth, especially after a clear description of frequency tuning. Here, one- to three-dimensional photonic lasers are explained along with laser oscillations produced by a variety of microcavity methods. Metallodielectric and liquid-crystal photonic lasers are equally well illustrated. Chapter 7 introduces logic devices based on photonic crystals. This chapter clearly explains, with the help of simple illustrations, how to obtain AND, OR, and XOR logic gates. Chapter 8 concludes the book by presenting possible applications, including gas, chemical, fluid, and cell sensing; their workings are very well described from a fundamental point of view. The diagrams and illustrations are appropriate and eye catching. There are ample references; thus readers are able to find more detailed information to satisfy their curiosity if the book does not suffice. Even though the introduction provides basics of these photonic crystals, I do get the impression that the bigger picture is missing. A nonexpert may not understand the direct application of such materials right from the beginning of the book. A flowchart or a diagram of these photonic crystals, illustrating applications in daily life at the beginning of the book, could attract a broader readership. In this regard, I believe that this book is most adapted to physicists with a materials science background or vice versa. However, one

should take into consideration that the principles of photonic crystals cannot be explained without physics, and therefore the quality of this book remains intact and could very well serve as a textbook for future physicists.

Spectroscopic Ellipsometry Principles and Applications John Wiley & Sons Ellipsometry is a powerful tool used for the characterization of thin films and multi-layer semiconductor structures. This book deals with fundamental principles and applications of spectroscopic ellipsometry (SE). Beginning with an overview of SE technologies the text moves on to focus on the data analysis of results obtained from SE. Fundamental data analyses, principles and physical backgrounds and the various materials used in different fields from LSI industry to biotechnology are described. The final chapter describes the latest developments of real-time monitoring and process control which have attracted significant attention in various scientific and industrial fields.

Food Processing Principles and Applications John Wiley & Sons Renowned international academicians and food industry professionals have collaborated to create Food Processing: Principles and Applications. This practical, fully illustrated resource examines the principles of food processing and demonstrates their application by describing the stages and operations for manufacturing different categories of basic food products. Ideal as an undergraduate text, Food Processing stands apart in three ways: The expertise of the contributing authors is unparalleled among food processing texts today. The text is written mostly by non-engineers for other non-engineers and is therefore user-friendly and easy to read. It is one of the rare texts to use commodity manufacturing to illustrate the principles of food processing. As a hands-on guide to the essential processing principles and their application, this book serves as a relevant primary or supplemental text for students of food science and as a valuable tool for food industry professionals.

Ecological-Evolutionary Theory Principles and Applications Routledge For forty years, in a variety of books and articles, Gerhard Lenski has become the most influential proponent of ecological and evolutionary explanations of human societies, their development and transformations, from the Stone Age to the present. In his newest book, Lenski offers a succinct but comprehensive statement of the full body of his theory followed by demonstration of how it can be used to generate new and valuable insights when applied to a set of highly diverse issues. These include debates concerning the origin of ancient Israel and its distinctive culture, the rise of the West in the modern era, the highly varied trajectories of development of Third World nations in recent decades, and the failure of Marxist efforts to transform society in the Soviet Union and elsewhere. In the concluding chapter, Lenski discusses a number of other issues and areas where ecological-evolutionary theory may be fruitfully applied in the future.

Electronics Principles and Applications McGraw-Hill Science, Engineering & Mathematics "Electronics: Principles and Applications" introduces principles and applications of analog devices, circuits and systems. Like earlier editions, the Sixth Edition combines theory with real world applications in a well-paced sequence that introduces students to such topics as semiconductors, op amps, linear integrated circuits, and switching power supplies. Its purpose is to prepare students to effectively diagnose, repair, verify, and install electronic circuits and systems. Prerequisites are a command of algebra and an understanding of fundamental electrical concepts.

Chemical Thermodynamics: Advanced Applications Elsevier This book is an excellent companion to Chemical Thermodynamics: Principles and Applications. Together they make a complete reference set for the practicing scientist. This volume extends the range of topics and applications to ones that are not usually covered in a beginning thermodynamics text. In a sense, the book covers a "middle ground" between the basic principles developed in a beginning thermodynamics textbook, and the very specialized applications that are a part of an ongoing research project. As such, it could prove invaluable to the practicing scientist who needs to apply thermodynamic relationships to aid in the understanding of the chemical process under consideration. The writing style in this volume remains informal, but more technical than in Principles and Applications. It starts with Chapter 11, which summarizes the thermodynamic relationships developed in this earlier volume. For those who want or need more detail, references are given to the sections in Principles and Applications where one could go to learn more about the development, limitations, and conditions where these equations apply. This is the only place where Advanced Applications ties back to the previous volume. Chapter 11 can serve as a review of the fundamental thermodynamic equations that are necessary for the more sophisticated applications described in the remainder of this book. This may be all that is necessary for the practicing scientist who has been away from the field for some time and needs some review. The remainder of this book applies thermodynamics to the description of a variety of problems. The topics covered are those that are probably of the most fundamental and broadest interest. Throughout the book, examples of "real" systems are used as much as possible. This is in contrast to many books where "generic" examples are used almost exclusively. A complete set of references to all sources of data and to supplementary reading sources is included. Problems are given at the end of each chapter. This makes the book ideally suited for use as a textbook in an advanced topics course in chemical thermodynamics. An excellent review of thermodynamic principles and mathematical relationships along with references to the relevant sections in Principles and Applications where these equations are developed Applications of thermodynamics in a wide variety of chemical processes, including phase equilibria, chemical equilibrium, properties of mixtures, and surface chemistry Case-study approach to demonstrate the application of thermodynamics to biochemical, geochemical, and industrial processes Applications at the "cutting edge" of thermodynamics Examples and problems to assist in learning Includes a complete set of references to all literature sources

Advanced Biology Principles and Applications Hodder Murray This A Level Biology textbook covers all the requirements of the AS and A2 Biology specifications. This second edition has been updated to include: revisions to the content to reflect changing AS and A Level specifications; revised chapters on the underlying principles of ecology and modern biotechnology; a new chapter on genetic engineering; updated examination questions from recent past papers; and the use of full colour throughout.

Principles and Applications of Electrochemistry, 4th Edition CRC Press This introduction to the principles and application of electrochemistry is presented in a manner designed for undergraduates in chemistry and related fields. The author covers the essential aspects of the subject and points the way to further study, his concern being with the overall shape of electrochemistry, its coherence and its wider application. This edition differs from its predecessors in having principles and applications separated, and greater prominence is given to areas such as electrochemical sensors and electroanalytical techniques, of which a number of modern methods were not included in previous editions. A range of numerical problems and outline solutions is provided for each chapter to cover most situations that a student might encounter.

Principles and Applications of Lithium Secondary Batteries John Wiley & Sons Lithium secondary batteries have been key to mobile electronics since 1990. Large-format batteries typically for electric vehicles and energy storage systems are attracting much attention due to current energy and environmental issues. Lithium batteries are expected to play a central role in boosting green technologies. Therefore, a large number of scientists and engineers are carrying out research and development on lithium secondary batteries. The book is written in a straightforward fashion suitable for undergraduate and graduate students, as well as scientists, and engineers starting out in the field. The chapters in this book have been thoroughly edited by a collective of experts to achieve a cohesive book with a consistent style, level, and philosophy. They cover a wide range of topics, including principles and technologies of key materials such as the cathode, anode, electrolyte, and separator. Battery technologies such as design, manufacturing processes, and evaluation methods as well as applications are addressed. In addition, analytical methods for determining electrochemical and other properties of batteries are also included. Hence, this book is a must-have for everyone interested in obtaining all the basic information on lithium secondary batteries.

MRI Basic Principles and Applications John Wiley & Sons This fifth edition of the most accessible introduction to MRI principles and applications from renowned teachers in the field provides an understandable yet comprehensive update. Accessible introductory guide from renowned teachers in the field Provides a concise yet thorough introduction for MRI focusing on fundamental physics, pulse sequences, and clinical applications without presenting advanced math Takes a practical approach, including up-to-date protocols, and supports technical concepts with thorough explanations and illustrations Highlights sections that are directly relevant to radiology board exams Presents new information on the latest scan techniques and applications including 3 Tesla whole body scanners, safety issues, and the nephrotoxic effects of gadolinium-based contrast media

MANAGEMENT Principles and Applications Sultan Chand & Sons This streamlined volume covers the principles, concepts and application of management to provide the readers with a solid foundation for understanding key issues of management. A comprehensive and updated text book on "Management: Principles and Applications" has been designed by keeping in mind the requirements of the syllabus of B.Com. (H) CBCS (LOCF) Semester III BCH: 3.3, University of Delhi. This book meets the requirement of the syllabus of Credit Based System implemented in Delhi Universities and other universities in under graduate Commerce courses. The book is structured in five parts with twenty three chapters. The salient features of this volume are: 1. Concepts are explained in a lucid and succinct manner. 2. Texts are designed to ensure ease of grasping of concepts. 3. This volume provide extensive and comprehensive coverage of all the topics in the syllabus 4. The subject matter has been presented in a simple language and with a minimum of technical terminology. 5. Adequate emphasis has been given to conceptual clarity and application of basic concepts to satisfy the five learning outcomes specified in the syllabus. Use of diagrams, exhibits, tables, and figures has been incorporated to make the complex topics self-explanatory. 6. Large numbers of new and updated real-world examples are incorporated to ensure ease of grasping of concepts. 7. The examples have been given at appropriate places in the book to make the subject more interesting for the students. 8. Learning outcomes in the beginning of each chapter to give a bird's eye view of the contents and a practical management in action case study. 9. Important questions are given at the end of each chapter for students to test their knowledge and understanding of the topics covered in the chapter. 10. The case study has been incorporated at the end of each chapter to enable the students to apply the concepts learnt.

Food Processing Principles and Applications John Wiley & Sons Food Processing: Principles and Applications second edition is the fully revised new edition of this best-selling food technology title. Advances in food processing continue to take place as food scientists and food engineers adapt to the challenges imposed by emerging pathogens, environmental concerns, shelf life, quality and safety, as well as the dietary needs and demands of humans. In addition to covering food processing principles that have long been essential to food quality and safety, this edition of Food Processing: Principles and Applications, unlike the former edition, covers microbial/enzyme inactivation kinetics, alternative food processing technologies as well as environmental and sustainability issues currently facing the food processing industry. The book is divided into two sections, the first focusing on principles of food processing and handling, and the second on processing technologies and applications. As a hands-on guide to the essential processing principles and their applications, covering the theoretical and applied aspects of food processing in one accessible volume, this book is a valuable tool for food industry professionals across all manufacturing sectors, and serves as a relevant primary or supplemental text for students of food science.

Welding Principles and Applications This text has been revised to introduce the non-experienced welding student to the major weld, particularly gas metal arc welding processes and gas tungsten.

Industrial Chemistry: Principles and Applications Industrial chemistry is the study of applications of chemical processes for the development of consumer products from raw materials. Oil, metals, natural gas and minerals are some of the commonly used raw materials in such chemical processes. Industrial chemistry has applications across a range of other scientific fields and industries such as pharmaceuticals, food, cosmetics, polymer industry, among others. This book strives to present researches and studies that have transformed this discipline and aided its advancement. A number of key concepts and techniques central to the field of industrial chemistry are glanced at and their applications, as well as ramifications, are looked at in detail. From theories to research to practical applications, case studies related to all contemporary topics of relevance to this field have been included in this book. Students, researchers, experts and all associated with the discipline of industrial chemistry will benefit alike from this book.

Principles and Applications of Tribology John Wiley & Sons This fully updated Second Edition provides the reader with the solid understanding of tribology which is essential to engineers involved in the design of, and ensuring the reliability of, machine parts and systems. It moves from basic theory to practice, examining tribology from the integrated viewpoint of mechanical engineering, mechanics, and materials science. It offers detailed coverage of the mechanisms of material wear, friction, and all of the major lubrication techniques - liquids, solids, and gases - and examines a wide range of both traditional and state-of-the-art applications. For this edition, the author has included updates on friction, wear and lubrication, as well as completely revised material including the latest breakthroughs in tribology at the nano- and micro- level and a revised introduction to nanotechnology. Also included is a new chapter on the emerging field of green tribology and biomimetics.

Electricity Principles & Applications McGraw-Hill Companies This widely-used text prepares students for entry-level jobs in electronics, electrical trades and related fields. Its level and approach are ideal for both electronics and electricity programs looking for a relatively short, applied book covering DC/AC circuits. Additional chapters on topics such as safety, transformers, motors, instrumentation, and residential wiring are also included. No prior knowledge of electricity is assumed; the only prerequisites are arithmetic and basic algebra. Practical skills are emphasized throughout the text, and supported in the hands-on work provided in the companion Experiments Manual. MultiSim circuit files are provided, on a bound-in CD ROM, for those who want to bring software simulation work into their classes and labs.

Management Accounting Principles and Applications SAGE By adopting a new approach to helping students understand how management accounting contributes to decisions in a variety of organizational contexts, this textbook sets out clear explanations of practical management accounting techniques - in the context of the application of these techniques to decisions. Uniquely, the book examines the analytical and critical issues that often influence decision makers operating within private and public sector organizations. It is supported by case studies of varying complexity that will allow students to work at their own level and also includes summaries.

Principles and Applications of Electrical Engineering McGraw-Hill Education Giorgio Rizzoni and James Kearns 6th edition provides a solid overview of the electrical engineering discipline that is especially geared toward the many non-electrical engineering students who take this course. The hallmark feature of the text is its liberal use of practical applications to illustrate important principles. The applications come from every field of engineering and feature exciting technologies such as Ohio State's world-record setting electric car. The appeal to non-EE's is further heightened by such special features as the book's Focus on Measurement sections, Focus on Methodology sections, and Make the Connection sidebars. McGraw-Hill is also proud to offer Connect with the sixth edition of Rizzoni and Kearns, Principles and Applications of Electrical Engineering. Connect is the only integrated learning system that empowers students by continuously adapting to deliver precisely what they need, when they need it, how they need it, so that your class time is more engaging and effective. Rizzoni and Kearns Principles and Applications of Electrical Engineering,

sixth edition, includes the power of McGraw-Hill's LearnSmart--a proven adaptive learning program that helps students learn faster, study more efficiently, and retain more knowledge for greater success. LearnSmart is included in ConnectPlus. **Principles and Applications of Fluorescence Spectroscopy** John Wiley & Sons Fluorescence spectroscopy is an important investigational tool in many areas of analytical science, due to its extremely high sensitivity and selectivity. With many uses across a broad range of chemical, biochemical and medical research, it has become an essential investigational technique allowing detailed, real-time observation of the structure and dynamics of intact biological systems with extremely high resolution. It is particularly heavily used in the pharmaceutical industry where it has almost completely replaced radiochemical labelling. Principles and Applications of Fluorescence Spectroscopy gives the student and new user the essential information to help them to understand and use the technique confidently in their research. By integrating the treatment of absorption and fluorescence, the student is shown how fluorescence phenomena arise and how these can be used to probe a range of analytical problems. A key element of the book is the inclusion of practical laboratory experiments that illustrate the fundamental points and applications of the technique.

Optics Principles and Applications Elsevier Optics clearly explains the principles of optics using excellent pedagogy to support student learning. Beginning with introductory ideas and equations, K.K. Sharma takes the reader through the world of optics by detailing problems encountered, advanced subjects, and actual applications. Elegantly written, this book rigorously examines optics with over 300 illustrations and several problems in each chapter. The book begins with light propagation in anisotropic media considered much later in most books. Nearly one third of the book deals with applications of optics. This simple idea of merging the sometimes overwhelming and dry subject of optics with real world applications will create better future engineers. It will make 'optics' jump off the page for readers and they will see it take shape in the world around them. In presenting optics practically, as well as theoretically, readers will come away not only with a complete knowledge base but a context in which to place it. This book is recommended for optical engineers, libraries, senior undergraduate students, graduate students, and professors. Strong emphasis on applications to demonstrate the relevance of the theory Includes chapter on problem solving of ray deviations, focusing errors, and distortion Problems are included at the end of each chapter for thorough understanding of this dense subject matter

Instructional Design Principles and Applications Educational Technology Principles of instructional design; Applications and illustrations. **Principles and Applications of Photogeology** New Age International