

Efka Manual V720

Covering the gap between basic textbooks and over-specialized scientific publications, this is the first reference available to describe this interdisciplinary topic for PhD students and scientists starting in the field. The result is an introductory description providing suitable practical examples of the basic methods used to study tautomeric processes, as well as the theories describing the tautomerism and proton transfer phenomena. It also includes different spectroscopic methods for examining tautomerism, such as UV-VIs, time-resolved fluorescence spectroscopy, and NMR spectroscopy, plus the theoretical and practical background information. With its excellent overview of the methods, theories and examples, this is the perfect guide for any scientist dealing with tautomeric compounds in a wider context.

The United Nations Framework Classification for Resources (UNFC) is a project-based classification and management system applicable to all energy and mineral resource projects including renewable energy, anthropogenic resource projects as well as injection projects for geological storage. Since the adoption of the Sustainable Development Goals (SDGs), managing energy and raw material resources in a sustainable manner has become paramount to all stakeholders such as Governments, companies and investors. This has to be viewed along with the Paris Climate Accord, which seeks low-carbon pathways in the appropriate developmental strategies. Successful resource management in the modern world requires relevant information on the resource base, understanding of the factors that are responsible for progressing the resources to production, adequate framework conditions set by the regulators and society and the enterprising capacity. A series of case studies on various resource projects from different countries are presented in this report to demonstrate how UNFC could be used for sustainable resource management.

Feminism has dramatically influenced the way literary texts are read, taught and evaluated. Feminist literary theory has deliberately transgressed traditional boundaries between literature, philosophy and the social sciences in order to understand how gender has been constructed and represented through language. This lively and thought-provoking Companion presents a range of approaches to the field. Some of the essays demonstrate feminist critical principles at work in analysing texts, while others take a step back to trace the development of a particular feminist literary method. The essays draw on a range of primary material from the medieval period to postmodernism and from several countries, disciplines and genres. Each essay suggests further reading to explore this field further. This is the most accessible guide available both for students of literature new to this developing field, and for students of gender studies and readers interested in the interactions of feminism, literary criticism and literature.

In recent decades, there have been extensive developments in science and technology. These advances provide new techniques to deposit coatings onto various substrates, thus, addressing the ever-increasing performance requirements of various applications. Moreover, as technology itself develops, there are new problems that require new solutions, some of which can be solved through the application of coatings. Thus, the demands from coatings are continually increasing and the field is growing. The collection of articles contained within this volume cover a wide range of different research approaches to coatings reflecting the expanding field of coatings. It covers examples from topics such as a cold spray of magnesium alloys onto steel substrates, mechanical coatings of Ti-based materials onto steel balls, electroless plating of Ni-P coating onto an Mg-based alloy, magnetron sputtering of Ru-Zr coatings onto a Si wafer, a review of ionic liquids that form surface layers, as corrosion inhibitors, nano-composite epoxy coatings containing exfoliated clay (montmorillonite) for steel protection, a coating based on plasma electrolytic oxidation of an aluminum alloy and inhibited epoxy primer for aerospace aluminum alloys. This volume provides a wide-angle snapshot of current coating technologies through the presentation of some specific studies.

This book examines the image of home as experienced and expressed by the men and women who are affected by the crisis of homelessness and live in specialized institutions. Inga B. Ku?ma focuses on describing and interpreting the stories of people from homeless centers who speak about the ups and downs of their lives.

The report provides an overview of the tax measures introduced during the COVID-19 crisis across almost 70 jurisdictions, including all OECD and G20 countries and 21 additional members of the OECD/G20 Inclusive Framework on Base Erosion and Profit Shifting. It examines how tax policy responses have varied across countries and evolved over the last year.

Your Guide to the 10 Best of Everything in Seoul Discover the best of everything South Korea's capital city has to offer with the essential DK Eyewitness Top 10 Travel Guide Seoul. Top 10 lists showcase the best places to visit in Seoul, from Dongdaemun market to the grand royal palace of Gyeongbokgung. Seven easy-to-follow itineraries explore the city's most interesting areas - from the arty district of Insadong to Bukhansan National Park - while reviews of the best hotels, shops and restaurants in Seoul will help you plan your perfect trip.

This original and insightful handbook presents the latest research on the size and development of the shadow economy (also known as the black or underground economy), an integral component of the most developing and many developed countries' economies.

The chemistry of polyurethane coatings is of great significance in many applications worldwide. Moreover, their development potential has yet to be exhausted by any means. New applications are being identified and the product range will be further development. The book provides a comprehensive overview of the chemistry and the various possible application fields of polyurethanes. It starts by illustrating the principles of polyurethane chemistry, enabling the reader to understand the current significance of many applications and special developments. Newcomers learn about the key concepts of polyurethane chemistry and the main application technologies, while experienced specialists will value the insights on current trends and changes.

This book presents the design, analysis and testing of fully balanced RIAA phono amps and measurement tools. The content of this book extends a standard reference about RIAA phono amps "the sound of silence" by Burkhard Vogel. Here, the gap is filled between a semi-balanced engine (RIAA Phono-Amp Engine I) and a fully balanced engine, the RIAA Phono-Amp Engine II. In this new book on hand, "fully balanced" means that each phono-amp stage ends up in a balanced - or in other words symmetrical - solution, differentially amplified. Un-balanced / single-ended solutions are not in the scope.

Phlebotomy uses large, hollow needles to remove blood specimens for lab testing or blood donation. Each step in the process carries risks - both for patients and health workers. Patients may be bruised. Health workers may receive needle-stick injuries. Both can become infected with bloodborne organisms such as hepatitis B, HIV, syphilis or malaria. Moreover, each step affects the quality of the specimen and the diagnosis. A contaminated specimen will produce a misdiagnosis. Clerical errors can prove fatal. The new WHO guidelines provide recommended steps for safe phlebotomy and reiterate accepted principles for drawing, collecting blood and transporting blood to laboratories/blood banks.

Active Protective Coatings New-Generation Coatings for Metals Springer

Discover how biomarkers can boost the success rate of drug development efforts As pharmaceutical companies struggle to improve the success rate and cost-effectiveness of the drug development process, biomarkers have emerged as a valuable tool. This book synthesizes and reviews the latest efforts to identify, develop, and integrate biomarkers as a key strategy in translational medicine and the drug development process. Filled with case studies, the book demonstrates how biomarkers can improve drug development timelines, lower costs, facilitate better compound selection, reduce late-stage attrition, and open the door to personalized medicine. Biomarkers in Drug Development is divided into eight parts: Part One offers an overview of biomarkers and their role in drug development. Part Two highlights important technologies to help researchers identify new biomarkers. Part Three examines the characterization and validation process for both drugs and diagnostics, and provides practical advice

onappropriate statistical methods to ensure that biomarkers fulfilltheir intended purpose. Parts Four through Six examine the application of biomarkers indiscovery, preclinical safety assessment, clinical trials, andtranslational medicine. Part Seven focuses on lessons learned and the practical aspectsof implementing biomarkers in drug development programs. Part Eight explores future trends and issues, including dataintegration, personalized medicine, and ethical concerns. Each of the thirty-eight chapters was contributed by one or moreleading experts, including scientists from biotechnology andpharmaceutical firms, academia, and the U.S. Food and DrugAdministration. Their contributions offer pharmaceutical andclinical researchers the most up-to-date understanding of thestrategies used for and applications of biomarkers in drugdevelopment.

A step-by-step introduction to coatings formulation: Insights into the chemical composition and binders of various types of paints; Exclusive selection, analysis, and annotation of existing recipes; Various examples of how to develop a real-life paint formulation

Mr Tumble is funny and so are his friends! Join Aunt Polly, Grandad, Tumble and many more in this annual which is packed with silly stories, songs, puzzles, activities, character profiles and games! And while you're having fun there are some simple Makaton signs to try. It's perfect for all Mr Tumble fans.

The three volumes VIII/1A, B, C document the state of the art of "Laser Physics and Applications". Scientific trends and related technological aspects are considered by compiling results and conclusions from phenomenology, observation and experience. Reliable data, physical fundamentals and detailed references are presented. In the recent decades the laser beam source matured to a universal tool common to scientific research as well as to industrial use. Today a technical goal is the generation of optical power towards shorter wavelengths, shorter pulses and higher power for application in science and industry. Tailoring the optical energy in wavelength, space and time is a requirement for the investigation of laser-induced processes, i.e. excitation, non-linear amplification, storage of optical energy, etc. According to the actual trends in laser research and development, Vol. VIII/1 is split into three parts: Vol. VIII/1A with its two subvolumes 1A1 and 1A2 covers laser fundamentals, Vol. VIII/1B deals with laser systems and Vol. VIII/1C gives an overview on laser applications.

Liquid-Liquid Systems

Many of the earliest books, particularly those dating back to the 1900s and before, are now extremely scarce and increasingly expensive. We are republishing these classic works in affordable, high quality, modern editions, using the original text and artwork.

This is a learning book about the alphabet written as a poem. It emphasizes each letter of the alphabet in the sentences.

Returns to the rich landscape of Mid-World in a story within a story about gunslinger Roland Deschain, who while investigating a murderous shape-shifter interviews a terrified teen who has witnessed the creature's most recent killing.

Here is the most complete guide available for the analysis of tannins. A battery of tannin methodologies is presented in a simple, clear and easy-to-understand manner. This unique guide covers chemical, biological and radio isotopic tannin assays. Comprehensive step-by-step protocols are presented for each method. The protocols enable non-specialists and specialists alike to implement the methods easily in the laboratory. It is an ideal laboratory manual for research scientists, graduate students, and laboratory personnel working in the fields of animal nutrition, soil nutrient management, wild life-plant interactions, and plant breeding.

This collection of papers explores the theory, history, economics, evaluation, and applications of the conjunctive use of surface and groundwater. Ways to use water efficiency for irrigation are analyzed, and their feasibility and institutional implications are examined in case histories of California, Pakistan, and China. Particular attention is paid to the concept of externalities - costs borne by society or by persons other than the individual whose actions occasioned them. In the context of irrigated agriculture, such diseconomies impede the efficient allocation of water, and thus output is less than it could be. The authors consider a host of remedies: institutional arrangements, methods of irrigation management, and investment in irrigation and drainage facilities, as well as plans for involving pricing, taxation, and regulation. The demanding informational and managerial requirements of efficient conjunctive use are also addressed in chapters on the use of sophisticated analytical methods to measure and model the efficiency of irrigation systems.

Benjamin and Bobby Bunny both want to be this year's Easter Bunny. Benjamin pulls the winning ticket, but a mishap ensues. Bobby finds a way for the brothers to become "The Easter Bunny Brothers"!

This book covers a broad range of materials science that has been brought to bear on providing solutions to the challenges of developing self-healing and protective coatings for a range of metals. The book has a strong emphasis on characterisation techniques, particularly new techniques that are beginning to be used in the coatings area. It features many contributions written by experts from various industrial sectors which examine the needs of the sectors and the state of the art. The development of self-healing and protective coatings has been an expanding field in recent years and applies a lot of new knowledge gained from other fields as well as other areas of materials science to the development of coatings. It has borrowed from fields such as the food and pharmaceutical industries who have used, polymer techniques, sol-gel science and colloidosome technology for a range encapsulation techniques. It has also borrowed from fields like hydrogen storage such as from the development of hierarchical and other materials based on organic templating as "nanocontainers" for the delivery of inhibitors. In materials science, recent developments in high throughput and other characterisation techniques, such as those available from synchrotrons, are being increasingly used for novel characterisation – one only needs to look at the application of these techniques in self healing polymers to gauge wealth of new information that has been gained from these techniques. This work is largely driven by the need to replace environmental pollutants and hazardous chemicals that represent risk to humans such as chromate inhibitors which are still used in some applications.

Easily accessible Includes recent developments Assumes very little knowledge of differentiable manifolds and functional analysis Particular emphasis on topics related to mirror symmetry (SUSY, Kaehler-Einstein metrics, Tian-Todorov lemma)

For Christmas, Bobby and Benjamin Bunny want a train just like their friend Tom Turkey's. When Santa arrives, Bobby awakens and problems ensue. Both brothers learn an important lesson about Christmas.

The 2017 edition of *Pensions at a Glance* highlights the pension reforms undertaken by OECD countries over the last two years. Moreover, one special chapter focuses on flexible retirement

options in OECD countries and discusses people's preferences regarding flexible retirement, the actual use of these programs and the impact on benefit levels. This edition also updates information on the key features of pension provision in OECD countries and provides projections of retirement income for today's workers. It offers indicators covering the design of pension systems, pension entitlements, the demographic and economic context in which pension systems operate, incomes and poverty of older people, the finances of retirement-income systems and private pensions.

This is a volume of twelve essays published in the successful tradition of *Essays in Philosophy* (Mourant and others; The Pennsylvania State University Press, 1962). These essays in metaphysics merge the eternal, the historical, and the immediately encountered dimensions of man's experience to illustrate what is permanently valuable in the tradition of Western thought. Contributors: John M. Anderson; Karel Berka; Hiram Canton; Joseph C. Flay; Richard A Gotshalk; Carl R. Hausman; Henry W. Johnstone, Jr.; Joseph J. Kockelmans; Robert G. Price; Stanley H. Rosen; Albert Tsugawa; Carl G. Vaught.

Ever since their invention in 1960, lasers have assumed tremendous importance in the fields of science, engineering and technology because of their use both in basic research and in various technological applications. *Lasers: Theory and Applications 2nd Edition* will provide a coherent presentation of the basic physics behind the working of the laser along with some of their most important applications. Numerical examples are scattered throughout the book for helping the student gain a better appreciation of the concepts and problems at the end of each chapter and provides the student a better understanding of the basics and help in applying the concepts to practical situations. This book serves as a text in a course on lasers and their applications for students majoring in various disciplines such as Physics, Chemistry and Electrical Engineering.

This unique collection brings a rarely-seen indigenous and global perspective to the study of gender and psychology. Within these chapters, researchers who live and work in the countries and cultures they study examine gender-based norms, values, expression, and relations across diverse Western and non-Western societies. Familiar as well as less-covered locations and topics are analyzed, including China, New Zealand, Israel, Turkey, Central America, the experience of refugees, and gendered health inequities across Africa such as in the treatment of persons with HIV. Included, too, are examples of culturally appropriate interventions to address disparities, and data on the extent to which these steps toward equality are working. Structurally, the volume is divided into three sections. The first two parts of the book take readers on a journey to different regions of the world to illustrate the most recent trends in research concerning gender issues, and then outline present implications and future prospects for the psychological analysis of both gender & culture. The third section of the book has an applied perspective and focuses on the cultural norms and values reinforcing gender equality as well as cultural and social barriers to them. A sampling of the topics covered: Sexual orientation across culture and time. A broader conceptualization of sexism in Poland. An analysis of gender roles within the family in Switzerland Modern-day dowries in South Asian international arranged marriages. The current state of gender equality in the United States of America. Socio-cultural determinants of gender disparity in Ghana. *Psychology of Gender Through the Lens of Culture* is a milestone toward core human rights and goals worldwide, and a critical resource for psychologists, sociologists, anthropologists, gender studies researchers, public policy makers and all those interested in promoting gender equality throughout the world.

Automation in Garment Manufacturing provides systematic and comprehensive insights into this multifaceted process. Chapters cover the role of automation in design and product development, including color matching, fabric inspection, 3D body scanning, computer-aided design and prototyping. Part Two covers automation in garment production, from handling, spreading and cutting, through to finishing and pressing techniques. Final chapters discuss advanced tools for assessing productivity in manufacturing, logistics and supply-chain management. This book is a key resource for all those engaged in textile and apparel development and production, and is also ideal for academics engaged in research on textile science and technology. Delivers theoretical and practical guidance on automated processes that benefit anyone developing or manufacturing textile products Offers a range of perspectives on manufacturing from an international team of authors Provides systematic and comprehensive coverage of the topic, from fabric construction, through product development, to current and potential applications

The purpose of the WHO Human Health Risk Assessment Toolkit: Chemical Hazards is to provide its users with guidance to identify, acquire and use the information needed to assess chemical hazards, exposures and the corresponding health risks in their given health risk assessment contexts at local and/or national levels. The Toolkit provides road maps for conducting a human health risk assessment, identifies information that must be gathered to complete an assessment and provides electronic links to international resources from which the user can obtain information and methods essential for conducting the human health risk assessment. By doing so, the Toolkit also raises awareness and promotes the use of globally accepted risk assessment information that has been developed by international organizations such as WHO, the Food and Agriculture Organization of the United Nations, the United Nations Environment Programme, the Codex Alimentarius Commission and OECD for use in countries. The Toolkit has been developed for public health and environmental professionals, regulators, industrial managers and other decision-makers with at least some training in the principles of risk assessment who are responsible for conducting human health risk assessments and making decisions on whether to take action to manage human health risks associated with exposure to chemicals.

The nature and story of the Christian church is immensely important to theology students and scholars alike. Written by an international team of distinguished scholars, this comprehensive book introduces students to the fundamental historical, systematic, moral and ecclesiological aspects of the study of the church, as well as serving as a resource

for scholars engaging in ecclesiological debates on a wide variety of issues. It divides into six parts: the church in its historical context the different denominational traditions global perspectives methods and debates in ecclesiology key concepts and themes ecclesiology and other disciplines: social sciences, philosophy, literature and film. Authoritative, accessible and easily navigable, this book is indispensable for everyone interested in the nature and history of the Christian Church.

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