

Read free Handbook of pharmaceutical salts properties selection and use (2023)

this comprehensive up to date guide and information source is an instructive companion for all scientists involved in research and development of drugs and in particular of pharmaceutical dosage forms the editors have taken care to address every conceivable aspect of the preparation of pharmaceutical salts and present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts altogether the contributions reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products the first edition of this handbook was a tremendous success collating the scientific literature on this topic that had otherwise been rather limited and scattered throughout numerous journals and patents the result was a comprehensive resource that addresses the preparation selection and use of pharmaceutically active salts examining the opportunities for increased efficacy and improved drug delivery provided by the selection of an optimal salt this second revised edition is designed to meet the continued interest in both the topic and the book altogether the contributions to this book by international team of authors from academia and pharmaceutical industry reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products they present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts taking great care to address every conceivable aspect of the preparation of pharmaceutical salts an introductory chapter presents a concise review of the various objectives in the pursuit of pharmaceutically active salts followed by the theoretical background of salt formation there then follow chapters on the practice of salt formation in an industrial r d environment as well as regulatory and patent issues practical examples for the practitioners at the lab bench are provided before the book concludes with a comprehensive annotated compilation of the individual salt forming acids and bases with their relevant properties followed by an appendix containing tables with the acids and bases sorted alphabetically and by pka supplemented with other useful facts and data an essential reference for students of medicinal and pharmaceutical chemistry and an indispensable handbook for r d chemists analytical chemists biologists development pharmacists regulatory and patent specialists and medicinal scientists engaged in preclinical development of drugs in addition this comprehensive and up to date guide is an instructive companion for all scientists involved in the research and development of drugs and in particular of pharmaceutical dosage forms magnesium and magnesium alloys provide unique properties for engineering applications magnesium alloys are popular as a structural material because of

their combination of light weight and strength they are desirable for portable tools appliances electronic devices airplanes space vehicles and land transportation this book is written for engineers scientists teachers and students engaged in the design process of material selection and material elimination while focused on mechanical properties for structural design the physical properties that are germane to corrosion behavior and electrical applications are represented two thirds of the book is devoted to datasheets for individual alloys which provide a handy quick reference to specific properties and performance the remainder of the book addresses topics common to all magnesium alloys such as the alloy designation system and product forms casting alloys and wrought alloys are compared the alloy performance at elevated temperature is presented as are fatigue properties finally a summary of the corrosion behavior of selected alloys is discussed along with how these corrosion mechanisms can be applied for beneficial results the use of coatings in industry is growing and will continue to grow because of the economic and technical advantages they offer over uncoated materials although a wide variety of materials and application of techniques are available much less is known about the properties of specific coatings and their measurement this 1984 volume contains some 26 papers that were presented at a 1983 symposium organized to explore these questions the symposium was divided into five sessions dealing with coating technologies measurement of coating properties marine coatings field applied coatings for corrosion control and tribological coatings this volume contains the proceedings of the workshop held in march 1990 at austin texas on self organization emerging properties and learning the workshop was co sponsored by nato scientific affairs division solvay institutes of physics and chemistry the university of texas at austin and ic2 institute at austin it gathered representatives from a large spectrum of scientific endeavour the subject matter of self organization extends over several fields such as hydrodynamics chemistry biology neural networks and social sciences several key concepts are common to all these different disciplines in general the self organization processes in these fields are described in the framework of the nonlinear dynamics which also governs the mechanisms underlying the learning processes because of this common language it is expected that any progress in one area could benefit other fields thus a beneficial cross fertilization may result in last two decades many workshops and conferences had been organized in various specific fields dealing with self organization and emerging properties of systems the aim of the workshop in austin was to bring together researchers from seemingly unrelated areas and interested in self organization emerging properties and learning capabilities of interconnected multi unit systems the hope was to initiate interesting exchange and lively discussions the expectations of the organizers are materialized in this unusual collection of papers which brings together in a single volume representative research from many related fields thus this volume gives to the reader a wider perspective over the generality and ramifications of the key concepts of self organization this book arises from a workshop organized by the american association of pharmaceutical scientists entitled optimizing the drug like properties of leads in drug discovery which took place in parsippany nj in september 2004 the workshop focused on the optimization of the drug like properties of leads in drug

discovery the volume outlines strategies and methodologies designed to guide pharmaceutical and biotechnology companies through the drug discovery and development process of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target typically only a fraction of these have sufficient adme tox properties to become a drug product understanding adme tox is critical for all drug researchers owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery if the properties are weak the candidate will have a high risk of failure or be less desirable as a drug product this book is a tool and resource for scientists engaged in or preparing for the selection and optimization process the authors describe how properties affect in vivo pharmacological activity and impact in vitro assays individual drug like properties are discussed from a practical point of view such as solubility permeability and metabolic stability with regard to fundamental understanding applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance the authors also review various methods for the screening high throughput diagnosis medium throughput and in depth low throughput analysis of drug properties serves as an essential working handbook aimed at scientists and students in medicinal chemistry provides practical step by step guidance on property fundamentals effects structure property relationships and structure modification strategies discusses improvements in pharmacokinetics from a practical chemist s standpoint services and service oriented computing have emerged and matured over the last decade bringing with them a number of available services that are selected by users and developers and composed into larger applications the handbook of research on non functional properties for service oriented systems future directions unites different approaches and methods used to describe map and use non functional properties and service level agreements this handbook which will be useful for both industry and academia provides an overview of existing research and also sets clear directions for future work demonstrating how and why to measure physicochemical and biomimetic properties in early stages of drug discovery for lead optimization physicochemical and biomimetic properties in drug discovery encourages readers to discover relationships between various measurements and develop a sense of interdisciplinary thinking that will add to new research in drug discovery this practical guide includes detailed descriptions of state of the art chromatographic techniques and uses real life examples and models to help medicinal chemists and scientists and advanced graduate students apply measurement data for optimal drug discovery shopping centers and other forms of retail properties continue to be among the soundest real estate investments in north america but retail property is a highly specialized field of real estate development with a unique and complex set of legal financial development management and marketing variables about which investors and developers must possess a sound working knowledge now this book arms you with that knowledge and much more the most comprehensive authoritative up to date resource of its kind shopping centers and other retail properties covers every vital aspect of negotiating buying selling developing managing and marketing shopping centers and other retail properties editors john r white and kevin d gray of the

leading real estate consulting firm Landauer Associates and an all star team of experts in the field of shopping center and retail property development share everything they know about all important legal issues investment and feasibility analysis valuation requirements and performance measures planning designing and renovating retail properties developing and investing in local and community shopping centers highway retail centers and regionals and super regionals operating and managing retail centers mortgage financing and financing through public and private equity issues space marketing and lease terms macro and micro market analysis and much more shopping centers and other retail properties is an indispensable working resource for both new and experienced retail property investors and developers as well as those who work with them including attorneys accountants analysts appraisers planners managers brokers and consultants timely insights into an industry undergoing tremendous change for both newcomers and seasoned professionals in retail property investment this book provides a wealth of vital information on every aspect of developing and managing shopping centers and retail properties written by an all star team of specialists in the field shopping centers and other retail properties provides expert guidance on financing developing operating and managing shopping centers and other retail properties covers analysis of retail market demand investment and feasibility analysis appraisal mortgage financing financing by equity new planning formats and much more serves as an indispensable working resource for investors developers attorneys accountants analysts appraisers planners managers brokers and consultants an authoritative work that will be immensely useful to anyone interested in retail real estate retail developments have become the key investments now targeted in real estate no two people have commanded more respect for expertise than this book's editors there are many many books attempting to guide readers in this field in my experienced view none compares to the excellence and usefulness of this text this book shows how a small toolbox of experimental techniques physical chemistry concepts as well as quantum classical mechanics and statistical methods can be used to understand explain and even predict extraordinary applications of these advanced engineering materials and biomolecules it highlights how improving the material foresight by design including the fundamental understanding of their physical and chemical properties can provide new technological levels in the future featuring the work one of the world's foremost authorities on rubber curing this uniquely comprehensive resource provides valuable data that will allow researchers and engineers to find solutions to their own curing problems it delves into a variety of current evaluation practices for unvulcanized and vulcanized rubber and curing methods i a dream shared by many is to run a few horses on a small property on the fringes of a city or town this book shows how to combine sustainable land management practices with a style of horse keeping that will protect the health and well being of your horses as well as the land and its wildlife good property management does not need to be an expensive undertaking improved pasture means less feed bills reduced mud or dust improves a horse's health and reduces vet bills better manure management turns a liability into an asset the reader is first introduced to the horse's natural behaviour as expressed in body language intelligence ability to learn grazing herd instincts and social

behaviour the book then goes on to cover all the basics of safe handling routine care and common health problems property selection property design water supply pasture management horse facilities fencing trees and plants manure management and equipment and tools are comprehensively dealt with in separate chapters this is a practical book written with a minimum of jargon especially for those who are new to horse ownership and small properties it will deliver real benefits to the landholder including reduced horse keeping costs better welfare of horses increased productivity and improved land management practices with contributed papers from the 2011 materials science and technology symposia this is a useful one stop resource for understanding the most important issues involved in the processing properties and applications of biomaterials science logically organized and carefully selected the articles cover the themes of the symposia next generation biomaterials and surface properties of biomaterials an essential reference for government labs as well as academics in mechanical and chemical engineering materials and or ceramics and chemistry a comprehensive handbook on residential valuation which includes coverage of recently revised professional standards descriptions of current reporting formats current definitions for industry specific terms and more today engineers designers buyers and all those who have to work with plastics face a dilemma there has been a proliferation of test methods by which plastic properties are measured the property data measured by these test methods are not identical and sometimes have large differences how are engineers designers buyers going to decide the type and resin grade and their property data which are the valid test methods the right plastic property data are the difference between success and failure of a design thus making the property selection process critical for the first time this book provides a simple and efficient approach to a highly complex and time consuming task there are over 26 000 different grades of polymers and millions of parts and applications further adding to the difficulty of the selection process selection of polymeric materials steers engineers and designers onto the right path to selecting the appropriate values for each plastic property a large amount of property information has been provided to teach and assist the plastic part designer and others in selecting the right resin and properties for an application various standards including astm iso ul and british specifications have been discussed to help the readers in making sound decisions a simple and efficient approach to a highly complex and time consuming task allows engineers to select from various standards including astm iso ul and british specification presents information on properties such as tensile strength melt temperature continuous service temperature moisture exposure specific gravity and flammability ratings tried and true values narrow myriad choices down quickly for readers as promising next generation candidates for applications in aero engines l12 strengthened cobalt co based superalloys have attracted extensive attention however the l12 strengthening phase in first generation co al w based superalloys is metastable and both its solvus temperature and mechanical properties still need improvement therefore it is necessary to discover new l12 strengthened co based superalloy systems with a stable l12 phase by exploring the effect of alloying elements on their stability traditional first principles calculations are capable of providing the crystal structure and mechanical

properties of the I12 phase doped by transition metals but suffer from low efficiency and relatively high computational costs the present study combines machine learning ml with first principles calculations to accelerate crystal structure and mechanical property predictions with the latter providing both the training and validation datasets three ml models are established and trained to predict the occupancy of alloying elements in the supercell and the stability and mechanical properties of the I12 phase the ml predictions are evaluated using first principles calculations and the accompanying data are used to further refine the ml models our ml accelerated first principles calculation approach offers more efficient predictions of the crystal structure and mechanical properties for co v ta and co al v based systems than the traditional counterpart this approach is applicable to expediting crystal structure and mechanical property calculations and thus the design and discovery of other advanced materials beyond co based superalloys optical properties particularly in the infrared range of wavelengths continue to be of enormous interest to both material scientists and device engineers the need for the development of standards for data of optical properties in the infrared range of wavelengths is very timely considering the on going transition of nano technology from fundamental r d to manufacturing radiative properties play a critical role in the processing process control and manufacturing of semiconductor materials devices circuits and systems the design and implementation of real time process control methods in manufacturing requires the knowledge of the radiative properties of materials sensors and imagers operate on the basis of the radiative properties of materials this book reviews the optical properties of various semiconductors in the infrared range of wavelengths theoretical and experimental studies of the radiative properties of semiconductors are presented previous studies potential applications and future developments are outlined in chapter 1 an introduction to the radiative properties is presented examples of instrumentation for measurements of the radiative properties is described in chapter 2 in chapters 3 11 case studies of the radiative properties of several semiconductors are elucidated the modeling and applications of these properties are explained in chapters 12 and 13 respectively in chapter 14 examples of the global infrastructure for these measurements are illustrated a critical and comprehensive examination of the origination and application of developments in the textile industry and its products this book provides one of the only state of the science reviews carried out in recent years it covers the measurement of wool fiber properties specifically those of raw wool it also examines the release and wide acceptance of instrument and test methods for the most important wool fiber characteristics both cost effectively and rapidly the book covers the most important materials naturals metals ceramics polymers and composites to be used mainly as structural engineering materials their main applications based on the properties are described in the first chapters of the book mechanical physical and chemical the second part of the book is dedicated to the conceptual design by properties for a certain structural application stiffness mechanical strength toughness fatigue resistance creep etc taking into account the weight and the cost one of the chapters of the second part of the book is focused on the heat treatments of steels in order to improve their resistance to fatigue the book concludes with a critical comparison between

materials considering their production properties and cost and the forecast about the utilization of the different fields of materials in structural applications in this book i have tried to bring together the major developments in the study of insect populations in tropical environments in some ways this task has been a difficult one because conceptually it is virtually impossible to limit a discussion of insect ecology to the tropics since the same concepts theories and hypotheses concerning the mechanisms by which habitats support insect populations often apply both to temperate and to tropical regions thus one might argue effectively that a book such as peter price s insect ecology represents a more comprehensive treatment of insect ecology including the tropical aspects yet because there has been a tremendous amount of new study on insects in the tropics in recent years and because there has also been a strong historical interest in tropical insects judging from early museum expeditions and medically and agriculturally oriented studies of insects in the new and old world tropics i believe there is a place for a book dealing almost exclusively with tropical insects but logically so such a book by necessity incorporates data and information from temperate zone studies if for no other reason than because insights into the properties of tropical environments often emerge from comparisons of species communities or faunas between temperate and tropical regions an understanding of insect populations in the tropics cannot be divorced from a consideration of temperate zone populations metallic magnetic and non magnetic nanocrystalline materials have been known for over ten years but only recent developments in the research into those complex alloys and their metastable amorphous precursors have created a need to summarize the most important accomplishments in the field this book is a collection of articles on various aspects of metallic nanocrystalline materials and an attempt to address this above need the main focus of the papers is put on the new issues that emerge in the studies of nanocrystalline materials and in particular on i new compositions of the alloys ii properties of conventional nanocrystalline materials iii modeling and simulations iv preparation methods v experimental techniques of measurements and vi different modern applications interesting phenomena of the physics of nanocrystalline materials are a consequence of the effects induced by the nanocrystalline structure they include interface physics the influence of the grain boundaries the averaging of magnetic anisotropy by exchange interactions the decrease in exchange length and the existence of a minimum two phase structure at the atomic scale attention is also paid to the special character of the local atomic ordering and to the corresponding interatomic bonding as well as to anomalies and particularities of electron density distributions and to the formation of metastable nanocrystalline or quasi crystalline phases built from exceptionally small grains with special properties another important focus of attention are new classes of materials which are not based on new compositions but rather on the original and special crystalline structure in the nanoscale in 1925 the state of tennessee enacted a law that prohibited the teaching of evolution in public schools specifically that man came from apes the law was immediately challenged by the aclu and pitted two famous lawyers clarence darrow and william jennings bryan a religious fundamentalist and one time presidential candidate in a bruising contest the case became famous known as the monkey trial in this fictional trial a high

school teacher was fired for introducing religion into his biology class in the form of criticism of darwinism the trial involves expert witnesses from a variety of fields who defend and attack darwinism but not merely from a biology point of view there are deep religion atheism legal political philosophical and cultural issues that are at stake and reflect today s bifurcated society the supreme court cases in the past fifty years on the establishment clause of the first amendment are demonstrated as in disarray especially in school religion cases the famous bioatheist richard dawkins is called out for his trenchant criticism of christians and distortion of darwinism to achieve his ends the lawyers are cut from vastly different cloth an ex vietnam soldier and an anti war conscientious objector but the scientific and religious experts do most of the talking from the witness stand the present book describes the preparation for and first week of trial this volume in the cosmetic science and technology series covers the important rheological aspects of cosmetic and toiletry formulations including theoretical physical chemistry instrumentation and measuring techniques raw materials and stability predictions the work discusses the specific rheological requirements of nail polish antipersirants and deodorants dentifrices hair care products creams and lotions unique and informative water properties of food pharmaceutical and biological materials is based on lectures and papers given by leading international researchers at the 9th international symposium of the properties of water in foods isopow 9 that took place in september 2004 each chapter presents an authoritative account of

Handbook of Pharmaceutical Salts Properties, Selection, and Use

2008-08-04

this comprehensive up to date guide and information source is an instructive companion for all scientists involved in research and development of drugs and in particular of pharmaceutical dosage forms the editors have taken care to address every conceivable aspect of the preparation of pharmaceutical salts and present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts altogether the contributions reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products

Organic Coatings; Properties, Selection, and Use

1968

the first edition of this handbook was a tremendous success collating the scientific literature on this topic that had otherwise been rather limited and scattered throughout numerous journals and patents the result was a comprehensive resource that addresses the preparation selection and use of pharmaceutically active salts examining the opportunities for increased efficacy and improved drug delivery provided by the selection of an optimal salt this second revised edition is designed to meet the continued interest in both the topic and the book altogether the contributions to this book by international team of authors from academia and pharmaceutical industry reflect the multidisciplinary nature of the science involved in selection of suitable salt forms for new drug products they present the necessary theoretical foundations as well as a wealth of detailed practical experience in the choice of pharmaceutically active salts taking great care to address every conceivable aspect of the preparation of pharmaceutical salts an introductory chapter presents a concise review of the various objectives in the pursuit of pharmaceutically active salts followed by the theoretical background of salt formation there then follow chapters on the practice of salt formation in an industrial r d environment as well as regulatory and patent issues practical examples for the practitioners at the lab bench are provided before the book concludes with a comprehensive annotated compilation of the individual salt forming acids and bases with their relevant properties followed by an appendix containing tables with the acids and bases sorted alphabetically and by pka supplemented with other useful facts and data an essential reference for students of medicinal and pharmaceutical chemistry and an indispensable handbook for r d chemists analytical chemists

biologists development pharmacists regulatory and patent specialists and medicinal scientists engaged in preclinical development of drugs in addition this comprehensive and up to date guide is an instructive companion for all scientists involved in the research and development of drugs and in particular of pharmaceutical dosage forms

Selecting neighborhoods. Selecting properties. Attracting and selecting homesteaders

1977

magnesium and magnesium alloys provide unique properties for engineering applications magnesium alloys are popular as a structural material because of their combination of light weight and strength they are desirable for portable tools appliances electronic devices airplanes space vehicles and land transportation this book is written for engineers scientists teachers and students engaged in the design process of material selection and material elimination while focused on mechanical properties for structural design the physical properties that are germane to corrosion behavior and electrical applications are represented two thirds of the book is devoted to datasheets for individual alloys which provide a handy quick reference to specific properties and performance the remainder of the book addresses topics common to all magnesium alloys such as the alloy designation system and product forms casting alloys and wrought alloys are compared the alloy performance at elevated temperature is presented as are fatigue properties finally a summary of the corrosion behavior of selected alloys is discussed along with how these corrosion mechanisms can be applied for beneficial results

Pharmaceutical Salts

2011-04-18

the use of coatings in industry is growing and will continue to grow because of the economic and technical advantages they offer over uncoated materials although a wide variety of materials and application of techniques are available much less is known about the properties of specific coatings and their measurement this 1984 volume contains some 26 papers that were presented at a 1983 symposium organized to explore these questions the symposium was divided into five sessions dealing with coating technologies measurement of coating properties marine coatings field applied coatings for corrosion control and tribological coatings

The Urban Homesteading Catalogue: Selecting neighborhoods, selecting properties, attraction and selection homesteaders

1977

this volume contains the proceedings of the workshop held in march 1990 at austin texas on self organization emerging properties and learning the workshop was co sponsored by nato scientific affairs division solvay institutes of physics and chemistry the university of texas at austin and ic2 institute at austin it gathered representatives from a large spectrum of scientific endeavour the subject matter of self organization extends over several fields such as hydrodynamics chemistry biology neural networks and social sciences several key concepts are common to all these different disciplines in general the self organization processes in these fields are described in the framework of the nonlinear dynamics which also governs the mechanisms underlying the learning processes because of this common language it is expected that any progress in one area could benefit other fields thus a beneficial cross fertilization may result in last two decades many workshops and conferences had been organized in various specific fields dealing with self organization and emerging properties of systems the aim of the workshop in austin was to bring together researchers from seemingly unrelated areas and interested in self organization emerging properties and learning capabilities of interconnected multi unit systems the hope was to initiate interesting exchange and lively discussions the expectations of the organizers are materialized in this unusual collection of papers which brings together in a single volume representative research from many related fields thus this volume gives to the reader a wider perspective over the generality and ramifications of the key concepts of self organization

Engineering Properties of Magnesium Alloys

2017-11-01

this book arises from a workshop organized by the american association of pharmaceutical scientists entitled optimizing the drug like properties of leads in drug discovery which took place in parsippany nj in september 2004 the workshop focused on the optimization of the drug like properties of leads in drug discovery the volume outlines strategies and methodologies designed to guide pharmaceutical and biotechnology companies through the drug discovery and development process

Mechanical Properties, Performance, and Failure Modes of Coatings

1984-08-31

of the thousands of novel compounds that a drug discovery project team invents and that bind to the therapeutic target typically only a fraction of these have sufficient adme tox properties to become a drug product understanding adme tox is critical for all drug researchers owing to its increasing importance in advancing high quality candidates to clinical studies and the processes of drug discovery if the properties are weak the candidate will have a high risk of failure or be less desirable as a drug product this book is a tool and resource for scientists engaged in or preparing for the selection and optimization process the authors describe how properties affect in vivo pharmacological activity and impact in vitro assays individual drug like properties are discussed from a practical point of view such as solubility permeability and metabolic stability with regard to fundamental understanding applications of property data in drug discovery and examples of structural modifications that have achieved improved property performance the authors also review various methods for the screening high throughput diagnosis medium throughput and in depth low throughput analysis of drug properties serves as an essential working handbook aimed at scientists and students in medicinal chemistry provides practical step by step guidance on property fundamentals effects structure property relationships and structure modification strategies discusses improvements in pharmacokinetics from a practical chemist s standpoint

Self-Organization, Emerging Properties, and Learning

2012-12-06

services and service oriented computing have emerged and matured over the last decade bringing with them a number of available services that are selected by users and developers and composed into larger applications the handbook of research on non functional properties for service oriented systems future directions unites different approaches and methods used to describe map and use non functional properties and service level agreements this handbook which will be useful for both industry and academia provides an overview of existing research and also sets clear directions for future work

Defining Boundaries for National Register Properties

1995

demonstrating how and why to measure physicochemical and biomimetic properties in early stages of drug discovery for lead optimization physicochemical and biomimetic properties in drug discovery encourages readers to discover relationships between various measurements and develop a sense of interdisciplinary thinking that will add to new research in drug discovery this practical guide includes detailed descriptions of state of the art chromatographic techniques and uses real life examples and models to help medicinal chemists and scientists and advanced graduate students apply measurement data for optimal drug discovery

Critical Surveys of Data Sources: Mechanical Properties of Metals

1974

shopping centers and other forms of retail properties continue to be among the soundest real estate investments in north america but retail property is a highly specialized field of real estate development with a unique and complex set of legal financial development management and marketing variables about which investors and developers must possess a sound working knowledge now this book arms you with that knowledge and much more the most comprehensive authoritative up to date resource of its kind shopping centers and other retail properties covers every vital aspect of negotiating buying selling developing managing and marketing shopping centers and other retail properties editors john r white and kevin d gray of the leading real estate consulting firm landauer associates and an all star team of experts in the field of shopping center and retail property development share everything they know about all important legal issues investment and feasibility analysis valuation requirements and performance measures planning designing and renovating retail properties developing and investing in local and community shopping centers highway retail centers and regionals and super regionals operating and managing retail centers mortgage financing and financing through public and private equity issues space marketing and lease terms macro and micro market analysis and much more shopping centers and other retail properties is an indispensable working resource for both new and experienced retail property investors and developers as well as those who work with them including attorneys accountants analysts appraisers planners managers brokers and

consultants timely insights into an industry undergoing tremendous change for both newcomers and seasoned professionals in retail property investment this book provides a wealth of vital information on every aspect of developing and managing shopping centers and retail properties written by an all star team of specialists in the field shopping centers and other retail properties provides expert guidance on financing developing operating and managing shopping centers and other retail properties covers analysis of retail market demand investment and feasibility analysis appraisal mortgage financing financing by equity new planning formats and much more serves as an indispensable working resource for investors developers attorneys accountants analysts appraisers planners managers brokers and consultants an authoritative work that will be immensely useful to anyone interested in retail real estate retail developments have become the key investments now targeted in real estate no two people have commanded more respect for expertise than this book's editors there are many many books attempting to guide readers in this field in my experienced view none compares to the excellence and usefulness of this text

Mechanical Properties and Specific Gravity of a Randomly Selected Sample of Engelmann Spruce

1970

this book shows how a small toolbox of experimental techniques physical chemistry concepts as well as quantum classical mechanics and statistical methods can be used to understand explain and even predict extraordinary applications of these advanced engineering materials and biomolecules it highlights how improving the material foresight by design including the fundamental understanding of their physical and chemical properties can provide new technological levels in the future

Optimizing the "Drug-Like" Properties of Leads in Drug Discovery

2007-12-31

featuring the work one of the world's foremost authorities on rubber curing this uniquely comprehensive resource provides valuable data that will allow researchers and engineers to find solutions to their own curing problems it delves into a variety of current evaluation practices for unvulcanized and vulcanized rubber and curing methods i

Drug-like Properties: Concepts, Structure Design and Methods

2010-07-26

a dream shared by many is to run a few horses on a small property on the fringes of a city or town this book shows how to combine sustainable land management practices with a style of horse keeping that will protect the health and well being of your horses as well as the land and its wildlife good property management does not need to be an expensive undertaking improved pasture means less feed bills reduced mud or dust improves a horse s health and reduces vet bills better manure management turns a liability into an asset the reader is first introduced to the horse s natural behaviour as expressed in body language intelligence ability to learn grazing herd instincts and social behaviour the book then goes on to cover all the basics of safe handling routine care and common health problems property selection property design water supply pasture management horse facilities fencing trees and plants manure management and equipment and tools are comprehensively dealt with in separate chapters this is a practical book written with a minimum of jargon especially for those who are new to horse ownership and small properties it will deliver real benefits to the landholder including reduced horse keeping costs better welfare of horses increased productivity and improved land management practices

Moisture Content and the Properties of Clear Southern Pine

1994

with contributed papers from the 2011 materials science and technology symposia this is a useful one stop resource for understanding the most important issues involved in the processing properties and applications of biomaterials science logically organized and carefully selected the articles cover the themes of the symposia next generation biomaterials and surface properties of biomaterials an essential reference for government labs as well as academics in mechanical and chemical engineering materials and or ceramics and chemistry

Materials

1988

a comprehensive handbook on residential valuation which includes coverage of recently revised professional standards descriptions of current reporting formats current definitions for industry specific terms and more

Handbook of Research on Service-Oriented Systems and Non-Functional Properties: Future Directions

2011-12-31

today engineers designers buyers and all those who have to work with plastics face a dilemma there has been a proliferation of test methods by which plastic properties are measured the property data measured by these test methods are not identical and sometimes have large differences how are engineers designers buyers going to decide the type and resin grade and their property data which are the valid test methods the right plastic property data are the difference between success and failure of a design thus making the property selection process critical for the first time this book provides a simple and efficient approach to a highly complex and time consuming task there are over 26 000 different grades of polymers and millions of parts and applications further adding to the difficulty of the selection process selection of polymeric materials steers engineers and designers onto the right path to selecting the appropriate values for each plastic property a large amount of property information has been provided to teach and assist the plastic part designer and others in selecting the right resin and properties for an application various standards including astm iso ul and british specifications have been discussed to help the readers in making sound decisions a simple and efficient approach to a highly complex and time consuming task allows engineers to select from various standards including astm iso ul and british specification presents information on properties such as tensile strength melt temperature continuous service temperature moisture exposure specific gravity and flammability ratings tried and true values narrow myriad choices down quickly for readers

Physicochemical and Biomimetic Properties in Drug Discovery

2013-11-25

as promising next generation candidates for applications in aero engines L12 strengthened cobalt co based superalloys have attracted extensive attention however the L12 strengthening phase in first generation co al w based superalloys is metastable and both its solvus temperature and mechanical properties still need improvement therefore it is necessary to discover new L12 strengthened co based superalloy systems with a stable L12 phase by exploring the effect of alloying elements on their stability traditional first principles calculations are capable of providing the crystal structure and mechanical properties of the L12 phase doped by transition metals but suffer from low efficiency and relatively high computational costs the present study combines machine learning ml with first principles calculations to accelerate crystal structure and mechanical property predictions with the latter providing both the training and validation datasets three ml models are established and trained to predict the occupancy of alloying elements in the supercell and the stability and mechanical properties of the L12 phase the ml predictions are evaluated using first principles calculations and the accompanying data are used to further refine the ml models our ml accelerated first principles calculation approach offers more efficient predictions of the crystal structure and mechanical properties for co v ta and co al v based systems than the traditional counterpart this approach is applicable to expediting crystal structure and mechanical property calculations and thus the design and discovery of other advanced materials beyond co based superalloys

Preliminary Investigation of Physical-properties Data from Pahute Mesa, Nevada Test Site, Using the GRASP Storage and Retrieval System

1979

optical properties particularly in the infrared range of wavelengths continue to be of enormous interest to both material scientists and device engineers the need for the development of standards for data of optical properties in the infrared range of wavelengths is very timely considering the on going transition of nano technology from fundamental r d to manufacturing radiative properties play a critical role in the processing process control and manufacturing of semiconductor materials devices circuits and systems the design and implementation of real time process control methods in manufacturing requires the

knowledge of the radiative properties of materials sensors and imagers operate on the basis of the radiative properties of materials this book reviews the optical properties of various semiconductors in the infrared range of wavelengths theoretical and experimental studies of the radiative properties of semiconductors are presented previous studies potential applications and future developments are outlined in chapter 1 an introduction to the radiative properties is presented examples of instrumentation for measurements of the radiative properties is described in chapter 2 in chapters 3 11 case studies of the radiative properties of several semiconductors are elucidated the modeling and applications of these properties are explained in chapters 12 and 13 respectively in chapter 14 examples of the global infrastructure for these measurements are illustrated

Properties of Western Larch and Their Relation to Uses of the Wood

1932

a critical and comprehensive examination of the origination and application of developments in the textile industry and its products this book provides one of the only state of the science reviews carried out in recent years it covers the measurement of wool fiber properties specifically those of raw wool it also examines the release and wide acceptance of instrument and test methods for the most important wool fiber characteristics both cost effectively and rapidly

Shopping Centers and Other Retail Properties

1996-03-15

the book covers the most important materials naturals metals ceramics polymers and composites to be used mainly as structural engineering materials their main applications based on the properties are described in the first chapters of the book mechanical physical and chemical the second part of the book is dedicated to the conceptual design by properties for a certain structural application stiffness mechanical strength toughness fatigue resistance creep etc taking into account the weight and the cost one of the chapters of the second part of the book is focused on the heat treatments of steels in order to improve their resistance to fatigue the book concludes with a critical comparison between materials considering their production properties and cost and the forecast about the utilization of the different fields of materials in structural applications

Functional Properties of Advanced Engineering Materials and Biomolecules

2021-05-17

in this book i have tried to bring together the major developments in the study of insect populations in tropical environments in some ways this task has been a difficult one because conceptually it is virtually impossible to limit a discussion of insect ecology to the tropics since the same concepts theories and hypotheses concerning the mechanisms by which habitats support insect populations often apply both to temperate and to tropical regions thus one might argue effectively that a book such as peter price s insect ecology represents a more comprehensive treatment of insect ecology including the tropical aspects yet because there has been a tremendous amount of new study on insects in the tropics in recent years and because there has also been a strong historical interest in tropical insects judging from early museum expeditions and medically and agriculturally oriented studies of insects in the new and old world tropics i believe there is a place for a book dealing almost exclusively with tropical insects but logically so such a book by necessity incorporates data and information from temperate zone studies if for no other reason than because insights into the properties of tropical environments often emerge from comparisons of species communities or faunas between temperate and tropical regions an understanding of insect populations in the tropics cannot be divorced from a consideration of temperate zone populations

Value Beyond Cost Savings: How to Underwrite Sustainable Properties

2010

metallic magnetic and non magnetic nanocrystalline materials have been known for over ten years but only recent developments in the research into those complex alloys and their metastable amorphous precursors have created a need to summarize the most important accomplishments in the field this book is a collection of articles on various aspects of metallic nanocrystalline materials and an attempt to address this above need the main focus of the papers is put on the new issues that emerge in the studies of nanocrystalline materials and in particular on i new compositions of the alloys ii properties of conventional nanocrystalline materials iii modeling and simulations iv preparation methods v experimental techniques of measurements and vi different modern applications interesting phenomena of the physics of nanocrystalline materials are a consequence of the effects induced by the nanocrystalline structure they

include interface physics the influence of the grain boundaries the averaging of magnetic anisotropy by exchange interactions the decrease in exchange length and the existence of a minimum two phase structure at the atomic scale attention is also paid to the special character of the local atomic ordering and to the corresponding interatomic bonding as well as to anomalies and particularities of electron density distributions and to the formation of metastable nanocrystalline or quasi crystalline phases built from exceptionally small grains with special properties another important focus of attention are new classes of materials which are not based on new compositions but rather on the original and special crystalline structure in the nanoscale

Stress-rupture and Tensile Properties of Refractory-metal Wires at 2000 °C and 2200 °F (1093 °C and 1204 °C)

1969

in 1925 the state of tennessee enacted a law that prohibited the teaching of evolution in public schools specifically that man came from apes the law was immediately challenged by the aclu and pitted two famous lawyers clarence darrow and william jennings bryan a religious fundamentalist and one time presidential candidate in a bruising contest the case became famous known as the monkey trial in this fictional trial a high school teacher was fired for introducing religion into his biology class in the form of criticism of darwinism the trial involves expert witnesses from a variety of fields who defend and attack darwinism but not merely from a biology point of view there are deep religion atheism legal political philosophical and cultural issues that are at stake and reflect today s bifurcated society the supreme court cases in the past fifty years on the establishment clause of the first amendment are demonstrated as in disarray especially in school religion cases the famous bioatheist richard dawkins is called out for his trenchant criticism of christians and distortion of darwinism to achieve his ends the lawyers are cut from vastly different cloth an ex vietnam soldier and an anti war conscientious objector but the scientific and religious experts do most of the talking from the witness stand the present book describes the preparation for and first week of trial

Rubber Curing and Properties

2016-04-19

this volume in the cosmetic science and technology series covers the important rheological aspects of cosmetic and toiletry formulations including theoretical physical chemistry instrumentation and measuring techniques raw materials and stability predictions the work discusses the specific rheological requirements of nail polish antiperspirants and deodorants dentifrices hair care products creams and lotions

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2022-09-20

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2017-08-21

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Structural Materials

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