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Springer Handbook of Materials Data Springer Handbook of Mechanical Engineering International Handbook of Higher Education Second International Handbook of Science Education International Handbook of Higher Education Second International Handbook of Science Education Springer Handbook of Electronic and Photonic Materials Springer Handbook of Wood Science and Technology International Handbook of Teachers and Teaching Springer Handbook of Glass Third International Handbook of Globalisation, Education and Policy Research Springer Handbook of Ocean Engineering Springer Handbook of Condensed Matter and Materials Data Springer Handbook of Global Navigation Satellite Systems International Handbook of Research in Professional and Practice-based Learning Springer Handbook of Model-Based Science International Handbook of English Language Teaching Springer Handbook of Aerogels Second International Handbook of Mathematics Education Springer Handbook of Inorganic Photochemistry Springer Handbook of Microscopy Springer Handbook of Robotics Second International Handbook of Lifelong Learning International Handbook of Early Childhood Education Springer Handbook of Automation Springer Handbook of Surface Science Springer Handbook of Geographic Information International Handbook of Information Technology in Primary and Secondary Education International Handbook of Virtual Learning Environments International Handbook of Research in Medical Education Springer Handbook of Optical Networks The International Handbook of Educational Research in the Asia-Pacific Region Springer Handbook of Atmospheric Measurements International Handbook of Evidence-Based Coaching Springer Handbook of Petroleum Technology International Handbook of Research in Statistics Education International Handbook of Interpretation in Educational Research International Handbook of Self-Study of Teaching and Teacher Education Practices Springer Handbook of Science and Technology Indicators International Handbook of Lifelong Learning

Springer Handbook of Materials Data 2018-07-27

the second edition of this well received handbook is the most concise yet comprehensive compilation of materials data the chapters provide succinct descriptions and summarize essential and reliable data for various types of materials the information is amply illustrated with 900 tables and 1050 figures selected primarily from well established data collections such as landolt börnstein which is now part of the springer materials database the new edition of the springer handbook of materials data starts by presenting the latest CODATA recommended values of the fundamental physical constants and provides comprehensive tables of the physical and physicochemical properties of the elements 25 chapters collect and summarize the most frequently used data and relationships for numerous metals nonmetallic materials functional materials and selected special structures such as liquid crystals and nanostructured materials along with careful updates to the content and the inclusion of timely and extensive references this second edition includes new chapters on polymers materials for solid catalysts and low dimensional semiconductors this handbook is an authoritative reference resource for engineers scientists and students engaged in the vast field of materials science

Springer Handbook of Mechanical Engineering 2020-12-09

this resource covers all areas of interest for the practicing engineer as well as for the student at various levels and educational institutions it features the work of authors from all over the world who have contributed their expertise and support the globally working engineer in finding a solution for today's mechanical engineering problems each subject is discussed in detail and supported by numerous figures and tables

International Handbook of Higher Education 2008-01-18

this book provides a central authoritative source of reference on the most essential topics of higher education the international handbook of higher education combines a rich diversity of scholarly perspectives with a wide range of internationally derived descriptions and analyses chapters in the first volume cover central themes in the study of higher education while contributors to the second volume focuses on contemporary higher education issues within specific countries or regions together these volumes provide a centralized easily accessible yet scholarly source of information

Second International Handbook of Science Education 2012

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International Handbook of Higher Education 2006-04-20

the international handbook of science education is a two volume edition pertaining to the most significant issues in science education it is a follow up to the first handbook published in 1998 which is seen as the most authoritative resource ever produced in science education the chapters in this edition are reviews of research in science education and retain the strong international flavor of the project it covers the diverse theories and methods that have been a foundation for science education and continue to characterize this field each section contains a lead chapter that provides an overview and synthesis of the field and related chapters that provide a narrower focus on research and current thinking on the key issues in that field leading researchers from around the world have participated as authors and consultants to produce a resource that is comprehensive detailed and up to date the chapters provide the most recent and advanced thinking in science education making the handbook again the most authoritative resource in science education

Second International Handbook of Science Education 2011-12-14

the second updated edition of this essential reference book provides a wealth of detail on a wide range of electronic and photonic materials starting from fundamentals and building up to advanced topics and applications its extensive coverage with clear illustrations and applications carefully selected chapter sequencing and logical flow makes it very different from other electronic materials handbooks it has been written by professionals in the field and instructors who teach the subject at a university or in corporate laboratories the springer handbook of electronic and photonic materials second edition includes practical applications used as examples details of experimental techniques useful tables that summarize equations and most importantly properties of various materials as well as an extensive glossary along with significant updates to the content and the

references the second edition includes a number of new chapters such as those covering novel materials and selected applications this handbook is a valuable resource for graduate students researchers and practicing professionals working in the area of electronic optoelectronic and photonic materials

Springer Handbook of Electronic and Photonic Materials 2017-10-04

this handbook provides an overview on wood science and technology of unparalleled comprehensiveness and international validity it describes the fundamental wood biology chemistry and physics as well as structure property relations of wood and wood based materials the different aspects and steps of wood processing are presented in detail from both a fundamental technological perspective and their realisation in industrial contexts the discussed industrial processes extend beyond sawmilling and the manufacturing of adhesively bonded wood products to the processing of the various wood based materials including pulp and paper natural fibre materials and aspects of bio refinery core concepts of wood applications quality and life cycle assessment of this important natural resource are presented the book concludes with a useful compilation of fundamental material parameters and data as well as a glossary of terms in accordance with the most important industry standards written and edited by a truly international team of experts from academia research institutes and industry thoroughly reviewed by external colleagues this handbook is well attuned to educational demands as well as providing a summary of state of the art research trends and industrial requirements it is an invaluable resource for all professionals in research and development and engineers in practise in the field of wood science and technology

Springer Handbook of Wood Science and Technology 2023-04-01

recent years have generated a huge increase in the number of research and scholarly works concerned with teachers and teaching and this effort has generated new and important insights that are crucial for understanding education today this handbook provides a host of chapters written by leading authorities that review both the major traditions of work and the newest perspectives concepts insights and research based knowledge concerned with teachers and teaching many of the chapters discuss developments that are international in scope but coverage is also provided for education in a number of specific countries many chapters also review contemporary problems faced by educators and the dangers posed by recent politically inspired attempts to reform schools and school systems the handbook provides an invaluable resource for scholars teacher educators graduate students and all thoughtful persons concerned with the best thinking about teachers and teaching current problems and the future of education

International Handbook of Teachers and Teaching 2013-11-11

this handbook provides comprehensive treatment of the current state of glass science from the leading experts in the field opening with an enlightening contribution on the history of glass the volume is then divided into eight parts the first part covers fundamental properties from the current understanding of the thermodynamics of the amorphous state kinetics and linear and nonlinear optical properties through colors photosensitivity and chemical durability the second part provides dedicated chapters on each individual glass type covering traditional systems like silicates and other oxide systems as well as novel hybrid amorphous materials and spin glasses the third part features detailed descriptions of modern characterization techniques for understanding this complex state of matter the fourth part covers modeling from first principles calculations through molecular dynamics simulations and statistical modeling the fifth part presents a range of laboratory and industrial glass processing methods the remaining parts cover a wide and representative range of applications areas from optics and photonics through environment energy architecture and sensing written by the leading international experts in the field the springer handbook of glass represents an invaluable resource for graduate students through academic and industry researchers working in photonics optoelectronics materials science energy architecture and more

Springer Handbook of Glass 2019-08-14

this handbook presents a global overview of current research in education and education policy reforms during the last decade it provides an accessible practical and comparative source of current research that examines the intersecting and diverse discourses of this important issue it first examines globalisation education and policy research and reforms in higher education including coverage of main trends in education and policy reforms globally as well as specific policy issues such as gender equity minorities and human rights next the handbook offers a comparative perspective that evaluates the ambivalent and problematic relationship between globalisation the state and education reforms globally it features coverage on curricula issues and education reforms in schools around the world the curriculum in the global culture as well as globalisation and education futures with respect to social justice and human rights the handbook contributes to a better and a more holistic understanding of the education reforms and research nexus offering possible strategies for the effective and pragmatic policy planning and implementation at the local regional and national levels it will serve as a vital sourcebook of ideas for researchers practitioners and policy makers in education

Third International Handbook of Globalisation,

Education and Policy Research 2021-09-17

this handbook is the definitive reference for the interdisciplinary field that is ocean engineering it integrates the coverage of fundamental and applied material and encompasses a diverse spectrum of systems concepts and operations in the maritime environment as well as providing a comprehensive update on contemporary leading edge ocean technologies coverage includes an overview on the fundamentals of ocean science ocean signals and instrumentation coastal structures developments in ocean energy technologies and ocean vehicles and automation it aims at practitioners in a range of offshore industries and naval establishments as well as academic researchers and graduate students in ocean coastal offshore and marine engineering and naval architecture the springer handbook of ocean engineering is organized in five parts part a fundamentals part b autonomous ocean vehicles subsystems and control part c coastal design part d offshore technologies part e energy conversion

Springer Handbook of Ocean Engineering **2016-07-23**

springer handbook of condensed matter and materials data provides a concise compilation of data and functional relationships from the fields of solid state physics and materials in this 1200 page volume the data encapsulated in 914 tables and 1025 illustrations have been selected and extracted primarily from the extensive high quality data collection landolt börnstein and also from other systematic data sources and recent publications of physical and technical property data many chapters are authored by landolt börnstein editors including the prominent springer handbook editors w martiensen and h warlimont themselves the handbook is designed to be useful as a desktop reference for fast and easy retrieval of essential and reliable data in the lab or office references to more extensive data sources are also provided in the book and by interlinking to the relevant sources on the enclosed cd rom physicists chemists and engineers engaged in fields of solid state sciences and materials technologies in research development and application will appreciate the ready access to the key information coherently organized within this wide ranging handbook from the reviews this is the most complete compilation i have ever seen when i received the book i immediately searched for data i never found elsewhere and i found them rapidly no doubt that this book will soon be in every library and on the desk of most solid state scientists and engineers it will never be at rest physicalia magazine

Springer Handbook of Condensed Matter and Materials Data 2006-09-21

this handbook presents a complete and rigorous overview of the fundamentals methods and applications of the multidisciplinary field of global navigation satellite

systems gnss providing an exhaustive one stop reference work and a state of the art description of gnss as a key technology for science and society at large all global and regional satellite navigation systems both those currently in operation and those under development gps glonass galileo beidou qzss irnss navic sbas are examined in detail the functional principles of receivers and antennas as well as the advanced algorithms and models for gnss parameter estimation are rigorously discussed the book covers the broad and diverse range of land marine air and space applications from everyday gnss to high precision scientific applications and provides detailed descriptions of the most widely used gnss format standards covering receiver formats as well as igs product and meta data formats the full coverage of the field of gnss is presented in seven parts from its fundamentals through the treatment of global and regional navigation satellite systems of receivers and antennas and of algorithms and models up to the broad and diverse range of applications in the areas of positioning and navigation surveying geodesy and geodynamics and remote sensing and timing each chapter is written by international experts and amply illustrated with figures and photographs making the book an invaluable resource for scientists engineers students and institutions alike

Springer Handbook of Global Navigation Satellite Systems 2017-06-16

the international handbook of research in professional and practice based learning discusses what constitutes professionalism examines the concepts and practices of professional and practice based learning including associated research traditions and educational provisions it also explores professional learning in institutions of higher and vocational education as well the practice settings where professionals work and learn focusing on both initial and ongoing development and how that learning is assessed the handbook features research from expert contributors in education studies of the professions and accounts of research methodologies from a range of informing disciplines it is organized in two parts the first part sets out conceptions of professionalism at work how professions work and learning can be understood and examines the kinds of institutional practices organized for developing occupational capacities the second part focuses on procedural issues associated with learning for and through professional practice and how assessment of professional capacities might progress the key premise of this handbook is that during both initial and ongoing professional development individual learning processes are influenced and shaped through their professional environment and practices moreover in turn the practice and processes of learning through practice are shaped by their development all of which are required to be understood through a range of research orientations methods and findings this handbook will appeal to academics working in fields of professional practice including those who are concerned about developing these capacities in their students in addition students and research students will also find this handbook a key reference resource to the field

International Handbook of Research in Professional and Practice-based Learning **2014-07-15**

this handbook offers the first comprehensive reference guide to the interdisciplinary field of model based reasoning it highlights the role of models as mediators between theory and experimentation and as educational devices as well as their relevance in testing hypotheses and explanatory functions the springer handbook merges philosophical cognitive and epistemological perspectives on models with the more practical needs related to the application of this tool across various disciplines and practices the result is a unique reliable source of information that guides readers toward an understanding of different aspects of model based science such as the theoretical and cognitive nature of models as well as their practical and logical aspects the inferential role of models in hypothetical reasoning abduction and creativity once they are constructed adopted and manipulated for different scientific and technological purposes is also discussed written by a group of internationally renowned experts in philosophy the history of science general epistemology mathematics cognitive and computer science physics and life sciences as well as engineering architecture and economics this handbook uses numerous diagrams schemes and other visual representations to promote a better understanding of the concepts this also makes it highly accessible to an audience of scholars and students with different scientific backgrounds all in all the springer handbook of model based science represents the definitive application oriented reference guide to the interdisciplinary field of model based reasoning

Springer Handbook of Model-Based Science **2017-05-22**

this two volume handbook provides a comprehensive examination of policy practice research and theory related to english language teaching in international contexts more than 70 chapters highlight the research foundation for best practices frameworks for policy decisions and areas of consensus and controversy in second language acquisition and pedagogy the handbook provides a unique resource for policy makers educational administrators and researchers concerned with meeting the increasing demand for effective english language teaching it offers a strongly socio cultural view of language learning and teaching it is comprehensive and global in perspective with a range of fresh new voices in english language teaching research

International Handbook of English Language Teaching **2007-12-31**

this indispensable handbook provides comprehensive coverage of the current state of the art in inorganic organic and composite aerogels from synthesis and

characterization to cutting edge applications and their potential market impact built upon springer s successful aerogels handbook published in 2011 this handbook features extensive revisions and timely updates reflecting the changes in this fast growing field aerogels are the lightest solids known to man up to 1000 times lighter than glass and with a density only four times that of air they possess extraordinarily high thermal electrical and acoustic insulation properties and boast numerous entries in guinness world records originally based on silica r d efforts have extended this class of materials to incorporate non silicate inorganic oxides natural and synthetic organic polymers carbon metal and ceramic materials composite systems involving polymer crosslinked aerogels and interpenetrating hybrid networks have been developed and exhibit remarkable mechanical strength and flexibility even more exotic aerogels based on clays chalcogenides phosphides quantum dots and biopolymers such as chitosan are opening new applications for the construction transportation energy defense and healthcare industries applications in electronics chemistry mechanics engineering energy production and storage sensors medicine nanotechnology military and aerospace oil and gas recovery thermal insulation and household uses are being developed readers of this fully updated and expanded edition will find an exhaustive source for all aerogel materials known today their fabrication upscaling aspects physical and chemical properties and the most recent advances towards applications and commercial use this key reference is essential reading for a combined audience of graduate students academic researchers and industry professionals

Springer Handbook of Aerogels 2023-10-01

alan 1 bishop the first international handbook on mathematics education was published by kluwer academic publishers in 1996 however most of the writing for that handbook was done in 1995 and generally reflected the main research and development foci prior to 1994 there were four sections 36 chapters and some 150 people contributed to the final volume either as author reviewer editor or critical friend the task was a monumental one attempting to cover the major research and practice developments in the international field of mathematics education as it appeared to the contributors in 1995 inevitably there were certain omissions some developments were only starting to emerge and some literatures were only sketchy and speculative however that handbook has had to be reprinted three times so it clearly fulfilled a need and i personally hope that it lived up to what i wrote in its introduction the handbook thus attempts not merely to present a description of the international state of the field but also to offer synthetic and reflective overviews on the different directions being taken by the field on the gaps existing in our present knowledge on the current problems being faced and on the future possibilities for development bishop et ai 1996 since that time there has been even more activity in our field and now seems a good time to take stock again to reflect on what has happened since 1995 and to create a second handbook with the same overall goals

Second International Handbook of Mathematics Education 2012-02-02

the handbook comprehensively covers the field of inorganic photochemistry from the fundamentals to the main applications the first section of the book describes the historical development of inorganic photochemistry along with the fundamentals related to this multidisciplinary scientific field the main experimental techniques employed in state of art studies are described in detail in the second section followed by a third section including theoretical investigations in the field in the next three sections the photophysical and photochemical properties of coordination compounds supramolecular systems and inorganic semiconductors are summarized by experts on these materials finally the application of photoactive inorganic compounds in key sectors of our society is highlighted the sections cover applications in bioimaging and sensing drug delivery and cancer therapy solar energy conversion to electricity and fuels organic synthesis environmental remediation and optoelectronics among others the chapters provide a concise overview of the main achievements in the recent years and highlight the challenges for future research this handbook offers a unique compilation for practitioners of inorganic photochemistry in both industry and academia

Springer Handbook of Inorganic Photochemistry 2022-06-25

this book features reviews by leading experts on the methods and applications of modern forms of microscopy the recent awards of nobel prizes awarded for super resolution optical microscopy and cryo electron microscopy have demonstrated the rich scientific opportunities for research in novel microscopies earlier nobel prizes for electron microscopy the instrument itself and applications to biology scanning probe microscopy and holography are a reminder of the central role of microscopy in modern science from the study of nanostructures in materials science physics and chemistry to structural biology separate chapters are devoted to confocal fluorescent and related novel optical microscopies coherent diffractive imaging scanning probe microscopy transmission electron microscopy in all its modes from aberration corrected and analytical to in situ and time resolved low energy electron microscopy photoelectron microscopy cryo electron microscopy in biology and also ion microscopy in addition to serving as an essential reference for researchers and teachers in the fields such as materials science condensed matter physics solid state chemistry structural biology and the molecular sciences generally the springer handbook of microscopy is a unified coherent and pedagogically attractive text for advanced students who need an authoritative yet accessible guide to the science and practice of microscopy

Springer Handbook of Microscopy 2019-11-02

the second edition of this handbook provides a state of the art overview on the various aspects in the rapidly developing field of robotics reaching for the human frontier robotics is vigorously engaged in the growing challenges of new emerging domains interacting exploring and working with humans the new generation of robots will increasingly touch people and their lives the credible prospect of practical robots among humans is the result of the scientific endeavour of a half a century of robotic developments that established robotics as a modern scientific discipline the ongoing vibrant expansion and strong growth of the field during the last decade has fueled this second edition of the springer handbook of robotics the first edition of the handbook soon became a landmark in robotics publishing and won the american association of publishers prose award for excellence in physical sciences mathematics as well as the organization s award for engineering technology the second edition of the handbook edited by two internationally renowned scientists with the support of an outstanding team of seven part editors and more than 200 authors continues to be an authoritative reference for robotics researchers newcomers to the field and scholars from related disciplines the contents have been restructured to achieve four main objectives the enlargement of foundational topics for robotics the enlightenment of design of various types of robotic systems the extension of the treatment on robots moving in the environment and the enrichment of advanced robotics applications further to an extensive update fifteen new chapters have been introduced on emerging topics and a new generation of authors have joined the handbook s team a novel addition to the second edition is a comprehensive collection of multimedia references to more than 700 videos which bring valuable insight into the contents the videos can be viewed directly augmented into the text with a smartphone or tablet using a unique and specially designed app springer handbook of robotics multimedia extension portal handbookofrobotics.org

Springer Handbook of Robotics 2016-07-27

the second edition of the international handbook of lifelong learning is extensive innovative and international in scope remit and vision inviting its readers to engage in a critical re appraisal of the theme of lifelong learning it is a thorough going rigorous and scholarly work with profound and wide ranging implications for the future of educating institutions and agencies of all kinds in the conception planning and delivery of lifelong learning initiatives lifelong learning requires a wholly new philosophy of learning education and training one that aims to facilitate a coherent set of links and pathways between work school and education and recognises the necessity for government to give incentives to industry and their employees so they can truly invest in lifelong learning it is also a concept that is premised on the understanding of a learning society in which everyone independent of race creed or gender is entitled to quality learning that is truly excellent this book recognises the need for profound changes in education and for goals that are critically important to education economic advancement and social

involvement to those concerned about the future of our society our economy and educational provision this book provides a richly illuminating basis for powerful debate drawing extensively on policy analyses conceptual thinking and examples of informed and world standard practice in lifelong learning endeavours in the field both editors and authors seek to focus readers attention on the many issues and decisions that must be addressed if lifelong learning is to become a reality for us all

Second International Handbook of Lifelong Learning 2012-01-18

this international handbook gives a comprehensive overview of findings from longstanding and contemporary research theory and practices in early childhood education in the northern and southern hemispheres the first volume of the handbook addresses theory methodology and the research activities and research needs of particular regions the second volume examines in detail innovations and longstanding programs curriculum and assessment and conceptions and research into child family and communities the two volumes of this handbook address the current theory methodologies and research needs of specific countries and provide insight into existing global similarities in early childhood practices by paying special attention to what is happening in the larger world contexts the volumes provide a representative overview of early childhood education practices and research and redress the current north south imbalance of published work on the subject

International Handbook of Early Childhood Education 2017-10-10

this handbook incorporates new developments in automation it also presents a widespread and well structured conglomeration of new emerging application areas such as medical systems and health transportation security and maintenance service construction and retail as well as production or logistics the handbook is not only an ideal resource for automation experts but also for people new to this expanding field

Springer Handbook of Automation 2009-07-16

this handbook delivers an up to date comprehensive and authoritative coverage of the broad field of surface science encompassing a range of important materials such metals semiconductors insulators ultrathin films and supported nanoobjects over 100 experts from all branches of experiment and theory review in 39 chapters all major aspects of solid state surfaces from basic principles to applications including the latest ground breaking research results beginning with the fundamental background of kinetics and thermodynamics at surfaces the handbook leads the reader through the basics of crystallographic structures and electronic

properties to the advanced topics at the forefront of current research these include but are not limited to novel applications in nanoelectronics nanomechanical devices plasmonics carbon films catalysis and biology the handbook is an ideal reference guide and instructional aid for a wide range of physicists chemists materials scientists and engineers active throughout academic and industrial research

Springer Handbook of Surface Science **2021-01-14**

this handbook provides an exhaustive one stop reference and a state of the art description of geographic information and its use this new substantially updated edition presents a complete and rigorous overview of the fundamentals methods and applications of the multidisciplinary field of geographic information systems designed to be a useful and readable desk reference book but also prepared in various electronic formats this title allows fast yet comprehensive review and easy retrieval of essential reliable key information the springer handbook of geographic information is divided into three parts part a basics and computer science provides an overview on the fundamentals including descriptions of databases and encoding of geographic information it also covers the underlying mathematical and statistics methods and modeling a new chapter exemplifies the emerging use and analysis of big data in a geographic context part b offers rigorous descriptions of gathering processing and coding of geographic information in a standardized way to allow interoperable use in a variety of systems from traditional methods such as geodesy and surveying to state of the art remote sensing and photogrammetry from cartography to geospatial web services discussions on geosemantic interoperability and security of open distributed geospatial information systems complete the comprehensive coverage the final part describes a wide array of applications in science industry and society at large such as agriculture defense transportation energy and utilities health and human services the part is enhanced by new chapters on smart cities and building information modeling as well as a complete overview of the currently available open source geographic information systems using standardized international terminology in accordance with iso tc 211 and inspire this handbook facilitates collaboration between different disciplines and is a must have for practitioners and new comers in industry and academia

Springer Handbook of Geographic Information **2022-06-24**

the major focus of this handbook is the design and potential of it based student learning environments offering the latest research in it and the learning process distance learning and emerging technologies for education these chapters address the critical issue of the potential for it to improve k 12 education a second important theme deals with the implementation of it in educational practice in

these chapters barriers and opportunities for its implementation are studied from several perspectives this handbook provides an integrated and detailed overview of this complex field making it an essential reference

International Handbook of Information Technology in Primary and Secondary Education **2008-08-26**

the international handbook of virtual learning environments was developed to explore virtual learning environments and their relationships with digital in real life and virtual worlds the book is divided into four sections foundations of virtual learning environments schooling professional learning and knowledge management out of school learning environments and challenges for virtual learning environments the coverage ranges across a broad spectrum of philosophical perspectives historical sociological political and educational analyses case studies from practical and research settings as well as several provocative classics originally published in other settings

International Handbook of Virtual Learning Environments 2007-11-24

geoff norman mcmaster university hamilton canada cees van der vleuten university of maastricht netherlands da vid newble university of sheffield england the international handbook of research in medical education is a review of current research findings and contemporary issues in health sciences education the orientation is toward research evidence as a basis for informing policy and practice in education although most of the research findings have accrued from the study of medical education the handbook will be useful to teachers and researchers in all health professions and others concerned with professional education the handbook comprises 33 chapters organized into six sections research traditions learning the educational continuum instructional strategies assessment and implementing the curriculum the research orientation of the handbook will make the book an invaluable resource to researchers and scholars and should help practitioners to identify research to place their educational decisions on a sound empirical footing the field of research in medical education the discipline of medical education began in north america more than thirty years ago with the founding of the first office in medical education at buffalo new york by george miller in the early 1960s soon after large offices were established in medical schools in chicago university of illinois los angeles university of southern california and lansing michigan state university all these first generation offices mounted master's level programs in medical education and many of their graduates went on to found offices at other schools

International Handbook of Research in Medical Education 2012-12-06

this handbook is an authoritative comprehensive reference on optical networks the backbone of today s communication and information society the book reviews the many underlying technologies that enable the global optical communications infrastructure but also explains current research trends targeted towards continued capacity scaling and enhanced networking flexibility in support of an unabated traffic growth fueled by ever emerging new applications the book is divided into four parts optical subsystems for transmission and switching core networks datacenter and super computer networking and optical access and wireless networks each chapter is written by world renown experts that represent academia industry and international government and regulatory agencies every chapter provides a complete picture of its field from entry level information to a snapshot of the respective state of the art technologies to emerging research trends providing something useful for the novice who wants to get familiar with the field to the expert who wants to get a concise view of future trends

Springer Handbook of Optical Networks 2020-10-15

the aim of the handbook is to present readily accessible but scholarly sources of information about educational research in the asia pacific region the scale and scope of the handbook is such that the articles included in it provide substantive contributions to knowledge and understanding of education in the asia region in so doing the articles present the problems and issues facing education in the region and the findings of research conducted within the region that contribute to the resolution of these problems and issues moreover since new problems and issues are constantly arising the articles in the handbook also indicate the likely directions of future developments the different articles within the handbook seek to conceptualize the problems in each specific content area under review provide an integration of the research conducted within that area the theoretical basis of the research the practical implications of the research and the contribution of the research towards the resolution of the problems identified thus the articles do not involve the reporting of newly conducted research but rather require a synthesis of the research undertaken in a particular area with reference to the research methods employed and the theoretical frameworks on which the research is based in general the articles do not advocate a single point of view but rather present alternative points of view and comment on the debate and disagreements associated with the conduct and findings of the research furthermore it should be noted that the handbook is not concerned with research methodology and only considers the methods employed in inquiry in so far as the particular methods of research contribute to the effective investigation of problems and issues that have arisen in the conduct and provision of education at different levels within the region

The International Handbook of Educational Research in the Asia-Pacific Region 2013-11-11

this practical handbook provides a clearly structured concise and comprehensive account of the huge variety of atmospheric and related measurements relevant to meteorologists and for the purpose of weather forecasting and climate research but also to the practitioner in the wider field of environmental physics and ecology the springer handbook of atmospheric measurements is divided into six parts the first part offers instructive descriptions of the basics of atmospheric measurements and the multitude of their influencing factors fundamentals of quality control and standardization as well as equations and tables of atmospheric water and soil quantities the subsequent parts present classical in situ measurements as well as remote sensing techniques from both ground based as well as airborne or satellite based methods the next part focusses on complex measurements and methods that integrate different techniques to establish more holistic data brief discussions of measurements in soils and water at plants in urban and rural environments and for renewable energies demonstrate the potential of such applications the final part provides an overview of atmospheric and ecological networks written by distinguished experts from academia and industry each of the 64 chapters provides in depth discussions of the available devices with their specifications aspects of quality control maintenance as well as their potential for the future a large number of thoroughly compiled tables of physical quantities sensors and system characteristics make this handbook a unique universal and useful reference for the practitioner and absolutely essential for researchers students and technicians

Springer Handbook of Atmospheric Measurements 2021-11-09

this handbook comprehensively covers the fundamental key concepts in coaching research and evidence based practice and shows how coaching can be applied to multiple contexts it provides coaching scholars researchers and practitioners with detailed review of the key concepts research and new insights into coaching research and practice this key reference work includes over 70 contributions from more than 110 leading researchers and practitioners in the field across countries and deftly combines theory with case studies and applications from psychology sociology business administration organizational studies education and communication studies this handbook edited by the top scholars in the field is meant for an academic as well as a professional readership and is an invaluable resource for coaches clients coaching institutes and associations and students of coaching

International Handbook of Evidence-Based

Coaching 2022-03-31

this handbook provides a comprehensive but concise reference resource for the vast field of petroleum technology built on the successful book practical advances in petroleum processing published in 2006 it has been extensively revised and expanded to include upstream technologies the book is divided into four parts the first part on petroleum characterization offers an in depth review of the chemical composition and physical properties of petroleum which determine the possible uses and the quality of the products the second part provides a brief overview of petroleum geology and upstream practices the third part exhaustively discusses established and emerging refining technologies from a practical perspective while the final part describes the production of various refining products including fuels and lubricants as well as petrochemicals such as olefins and polymers it also covers process automation and real time refinery wide process optimization two key chapters provide an integrated view of petroleum technology including environmental and safety issues written by international experts from academia industry and research institutions including integrated oil companies catalyst suppliers licensors and consultants it is an invaluable resource for researchers and graduate students as well as practitioners and professionals

Springer Handbook of Petroleum Technology **2017-12-20**

this handbook connects the practice of statistics to the teaching and learning of the subject with contributions from experts in several disciplines chapters present current challenges and methods of statistics education in the changing world for statistics and mathematics educators issues addressed include current and future challenges in professional development of teachers use of technology tools design of learning environments and appropriate student assessments this handbook presents challenging and inspiring international research perspectives on the history and nature current issues and future directions of statistics education and statistics education research

International Handbook of Research in Statistics Education 2017-12-08

the international handbook on self study of teaching and teacher education practices is of interest to teacher educators teacher researchers and practitioner researchers this volume offers an encyclopaedic review of the field of self study examines in detail self study in a range of teaching and teacher education contexts outlines a full understanding of the nature and development of self study explores the development of a professional knowledge base for teaching through self study purposefully represents self study through research and practice illustrates examples of self study in teaching and teacher education

International Handbook of Interpretation in Educational Research 2015

this handbook presents the state of the art of quantitative methods and models to understand and assess the science and technology system focusing on various aspects of the development and application of indicators derived from data on scholarly publications patents and electronic communications the individual chapters written by leading experts discuss theoretical and methodological issues illustrate applications highlight their policy context and relevance and point to future research directions a substantial portion of the book is dedicated to detailed descriptions and analyses of data sources presenting both traditional and advanced approaches it addresses the main bibliographic metrics and indexes such as the journal impact factor and the h index as well as altmetric and webometric indicators and science mapping techniques on different levels of aggregation and in the context of their value for the assessment of research performance as well as their impact on research policy and society it also presents and critically discusses various national research evaluation systems complementing the sections reflecting on the science system the technology section includes multiple chapters that explain different aspects of patent statistics patent classification and database search methods to retrieve patent related information in addition it examines the relevance of trademarks and standards as additional technological indicators the springer handbook of science and technology indicators is an invaluable resource for practitioners scientists and policy makers wanting a systematic and thorough analysis of the potential and limitations of the various approaches to assess research and research performance

International Handbook of Self-Study of Teaching and Teacher Education Practices 2007-07-03

recent changes in the world effected by the transformations of information technology globalisation and the move towards a knowledge economy over the last thirty years have been as radical and fundamental as the changes resulting from the invention of the wheel and the printing press we are now living in a new age in which the demands are so complex so multifarious and so rapidly changing that the only way in which we shall be able to survive them is by committing to a process of individual communal and global learning throughout the lifespan of all of us a number of international bodies and agencies have taken cognisance of these transformations and the demands they impose upon societies and communities of the twenty first century and have developed and articulated policies intended to enable all citizens of the world in the twenty first century to face these challenges it is now a declared policy of many governments and international agencies that the only vehicle for such preparation is education education education and that preparing for the knowledge economy and the learning society of the future has to be a lifelong undertaking an investment in the future that is not restricted merely to the domain of economic advancement but

also to those of social inclusion and personal growth realising this policy makers across the international arena are grappling with the need to move from systems that emphasise education and training to the radically more unworked construct of lifelong learning in this volume the editors and authors analyse criticise and rework the ideas principles and theories underpinning policies and programs of lifelong learning re interpreting them in the light of examples of best practice found in a range of educating institutions around the world we believe that students of educational change and community development will find it useful and helpful to have available in this volume some of the most up to date thinking on the chief concepts theories and values of increasing policy interest in lifelong learning together with a review of some significant examples of the different forms focuses and nexuses of thought and practice on this topic all this enables us to offer some policy recommendations and practical suggestions as to ways forward in the endeavour to make lifelong learning a reality for all

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