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Research in Chemistry Education Liliana Mammino 2021-05-17 This volume emphasizes the role of chemical education for development and, in particular, for sustainable development in Africa, by sharing experiences among specialists across the African continent and with specialists from other continents. It considers all areas and levels of chemistry education, gives specific attention to known major challenges and encourages explorations of novel approaches. The chapters in this book describe new teaching approaches, approach-explorations and in-class activities, analyse educational challenges and possible ways of addressing them and explore cross-discipline possibilities and their potential benefits for chemistry education. This makes the volume an up to date compendium for chemistry educators and educational researchers worldwide.

Research Methods in English Medium Instruction Jack K.H. Pun 2021-07-19 In this special edited volume, the editors and invited English Medium Instruction (EMI) researchers, from different parts of the world, outline the latest EMI research methods. Providing academic instruction using English is rapidly spreading in many countries where English is a second or foreign language, and there is a growing interest in researching the effectiveness and effects of EMI across different educational levels. This volume includes chapters on everything from research into classroom interaction to teachers' and students' perceptions and motivations to language challenges and strategies and the pedagogical implications of translanguaging in EMI classrooms. These specific topics were chosen to reflect different approaches to researching EMI. Each chapter focuses on a specific type of research methodology. It begins with an overview of the literature of the topic under discussion. Then an example study is provided to illustrate how this methodology can be used to investigate EMI. Each chapter identifies the process that the EMI researcher used to conduct their research and discusses key dilemmas they faced, focusing particularly on the methodological issues they encountered. By exploring these issues, this volume hopes to inform theory (or the lack thereof) underlying research into the phenomenon of EMI. This volume is indispensable for EMI tutors, curriculum developers, policymakers, and teachers, as well as students at both undergraduate and postgraduate levels. It is particularly valuable for researchers from across the globe working in the fields of applied linguistics, language education, English for Academic Purposes (EAP), English Language Teaching (ELT), and Teaching English to Speakers of Other Languages (TESOL).

More Urban Myths About Learning and Education Pedro De Bruyckere 2019-10-16
More Urban Myths About Learning and Education: Challenging Eduquacks, Extraordinary Claims, and Alternative Facts examines common beliefs about education and learning that are not supported by scientific evidence before using research to reveal the truth about each topic. The book comprises sections on educational approaches, curriculum, educational psychology, and educational policy, concluding with a critical look at evidence-based education itself. Does playing chess improve intelligence? Should tablets and keyboards replace handwriting? Is there any truth to the 10,000-hour rule for expertise? In an engaging, conversational style, authors Pedro De Bruyckere, Paul A. Kirschner, and Casper Hulshof tackle a set of pervasive myths, effectively separating fact from fiction in learning and education.

The Routledge Handbook of Environment and Communication Anders Hansen 2015-03-05
This Handbook provides a comprehensive statement and reference point for theory, research and practice with regard to environment and communication, and it does this from a perspective which is both international and multi-disciplinary in scope. Offering comprehensive critical reviews of the history and state of the art of research into the key dimensions of environmental communication, the chapters of this handbook together demonstrate the strengths of multi-disciplinary and cross-disciplinary approaches to understanding the centrality of communication to how the environment is constructed, and indeed contested, socially, politically and culturally. Organised in five thematic sections, The Routledge Handbook of Environment and Communication includes contributions from internationally recognised leaders in the field. The first section looks at the history and development of the discipline from a range of theoretical perspectives. Section two considers the sources, communicators and media professionals involved in producing environmental communication. Section three examines research on news, entertainment media and cultural representations of the environment. The fourth section looks at the social and political implications of environmental communication, with the final section discussing likely future trajectories for the field. The first reference Handbook to offer a state of the art comprehensive overview of the emerging field of environmental communication research, this authoritative text is a must for scholars of environmental communication across a range of disciplines, including environmental studies, media and communication studies, cultural studies and related disciplines.

The Statistical Stability Phenomenon Igor I. Gorban 2016-10-17
This monograph investigates violations of statistical stability of physical events, variables, and processes and develops a new physical-mathematical theory taking into consideration such violations - the theory of hyper-random phenomena. There are five parts. The first describes the phenomenon of statistical stability and its features, and develops methods for detecting violations of statistical stability, in particular when data is limited. The second part presents several examples of real processes of different physical nature and demonstrates the violation of statistical stability over broad observation intervals. The third part outlines the mathematical foundations of the theory of hyper-random phenomena, while the fourth develops the foundations of the mathematical analysis of divergent and many-valued functions. The fifth part contains theoretical and experimental studies of statistical laws where there is violation of statistical stability. The monograph should be of particular interest to engineers and scientists in general who study the phenomenon of statistical stability and use statistical methods for high-precision measurements, prediction, and signal processing over long observation

intervals.

Science Education and Curriculum in South Africa Oscar Koopman 2016-11-01 This book explores the impact of the socio-historical, political, and economic environment in South Africa, both during and after Apartheid. During this time, the South African education system demonstrated an interest in a specific type of knowledge, which Koopman refers to as 'a science of government'. This 'science of government' leaves the learners with a blurred understanding of science that is disconnected from external nature and human nature, and is presented as a series of abstract concepts and definitions. The book also investigates the dialectical tensions between the science curriculum and the role of the teacher as an active implementer of the curriculum. The book draws on the work of various phenomenological scholars, namely Edmund Husserl, Martin Heidegger, Merleau-Ponty, and Max van Manen to discuss these tensions.

Education Research in Belize for Belizeans Alberto Luis August 2022-01-28 This book consists of twenty-one empirical studies in the field of education conducted in the Belizean context by Belizean educators. It covers a variety of topics across various levels of education across the six districts in Belize. Each research study article consists of a background that introduces the topic of the study. A brief literature review informs the reader of the conceptual or theoretical framework of the study. The methodology presents the approach, research design, sample, and data collection procedures. The results section shares the raw data collected from the participants. The findings are discussed to bring the study together and it incorporates content from the literature review in the discussion. Conclusions are drawn and recommendations are made as a result of the conclusions. Each study suggests implications for best practices across the different topic areas. The conclusions of each research study can aid in the development of education policies to enhance the Belize education system.

Handbook of Research on Science Education Norman G. Lederman 2014-07-11 Building on the foundation set in Volume I—a landmark synthesis of research in the field—Volume II is a comprehensive, state-of-the-art new volume highlighting new and emerging research perspectives. The contributors, all experts in their research areas, represent the international and gender diversity in the science education research community. The volume is organized around six themes: theory and methods of science education research; science learning; culture, gender, and society and science learning; science teaching; curriculum and assessment in science; science teacher education. Each chapter presents an integrative review of the research on the topic it addresses—pulling together the existing research, working to understand the historical trends and patterns in that body of scholarship, describing how the issue is conceptualized within the literature, how methods and theories have shaped the outcomes of the research, and where the strengths, weaknesses, and gaps are in the literature. Providing guidance to science education faculty and graduate students and leading to new insights and directions for future research, the Handbook of Research on Science Education, Volume II is an essential resource for the entire science education community.

Practical Surgical Neuropathology: A Diagnostic Approach E-Book Arie Perry 2017-10-16 Part of the in-depth and practical Pattern Recognition series, *Practical Surgical Neuropathology, 2nd Edition*, by Drs. Arie Perry and Daniel J. Brat, helps you arrive at an accurate CNS diagnosis by using a pattern-based approach. Leading diagnosticians in neuropathology guide you from a

histological (and/or clinical, radiologic, and molecular) pattern, through the appropriate work-up, around the pitfalls, and to the best diagnosis. Almost 2,000 high-quality illustrations capture key neuropathological patterns for a full range of common and rare conditions, and a "visual index" at the beginning of the book directs you to the exact location of in-depth diagnostic guidance. Instructive algorithms provide detailed guidance based on 8 major (scanning magnification) patterns and 20 minor (high magnification) patterns - helping you narrow the range of diagnostic possibilities. A user-friendly design color-codes patterns to specific entities, and key points are summarized in tables, charts, and graphs so you can quickly and easily find what you are looking for. Sweeping content updates keep you at the forefront of recent findings regarding gliomas, embryonal neoplasms, meningiomas, pituitary region and pineal tumors, epilepsy pathology, peripheral nerve sheath tumors, neurodegenerative disorders, tumor predisposition syndromes, and much more. Improved pattern call-outs are now linked directly within the chapter, reinforcing the patterns for more efficient and complete understanding.

Handbook of Research on Active Learning and the Flipped Classroom Model in the Digital Age Keengwe, Jared 2015-11-12 The notion of a flipped classroom draws on such concepts as active learning, student engagement, hybrid course design, and course podcasting. The value of a flipped class is in the repurposing of class time into a workshop where students can inquire about lecture content, test their skills in applying knowledge, and interact with one another in hands-on activities. The Handbook of Research on Active Learning and the Flipped Classroom Model in the Digital Age highlights current research on the latest trends in education with an emphasis on the technologies being used to meet learning objectives. Focusing on teaching strategies, learner engagement, student interaction, and digital tools for learning, this handbook of research is an essential resource for current and future educators, instructional designers, IT specialists, school administrators, and researchers in the field of education.

2013 International Conference on Advanced Education Technology and Management Science (AETMS2013) S. K. Chen 2013-12-12 2013 International Conference on Advanced Education Technology and Management Science (AETMS2013) aims to provide a forum for accessing to the most up-to-date and authoritative knowledge from both Education Technology and Management Science. AETMS2013 features unique mixed topics of Education technology, Teaching theory, psychology, Sport Pedagogy, Management science and engineering, Finance and economics and so on. The goal of this conference is to bring researchers, engineers, and students to the areas of Education Technology and Management Science to share experiences and original research contributions on those topics.

Asia-Pacific STEM Teaching Practices Ying-Shao Hsu 2019-11-12 This book offers various perspectives on the complex and crosscutting concepts of the science, technology, engineering, and mathematics (STEM) disciplines in the classroom context. Presenting empirical studies, it reveals how researchers in the Asia-Pacific Region planned and implemented STEM education in the classroom. Further, it discusses the assessment of STEM learning to clarify what important elements should be included and how researchers and educators frame and design assessment tools. The book consists of four parts: potential and trends in STEM education; teachers' practical knowledge for STEM teaching; STEM teaching practices; and assessment of STEM learning. Providing evidence on developing curriculums, implementing instructional practices and educating classroom teachers, it is intended for readers wanting to explore STEM education from

multiple perspectives.

Walter and Miller's Textbook of Radiotherapy: Radiation Physics, Therapy and Oncology - E-Book R Paul Symonds 2019-07-11 Walter and Miller's Textbook of Radiotherapy is a key textbook for therapeutic radiography students as well as trainee clinical and medical oncologists, clinical physicists and technologists. The book is divided into 2 sections. The first section covers physics and provides a comprehensive review of radiotherapy physics. This section is designed to be non-physicist friendly, to simply and clearly explain the physical principles upon which radiotherapy and its technology are based. The second section is a systematic review by tumour site giving an up to date summary of radiotherapy practice. The title also covers the place of chemotherapy, surgery and non-radiotherapy treatments as well as the principles of cancer patient treatment including supportive care and palliative treatments. It is a comprehensive must-have resource for anyone studying therapeutic radiotherapy. Highly illustrated in full colour including 350 photographs. Clearly and simply explains the fundamental physics for clinicians Gives an up to date summary of radiotherapy practice organised by tumour site making it very easy to navigate. Describes the wide range of devices and clearly explains the principles behind their operation. Comprehensively explains the calculation models of dose predictions for treatment preparation. Heavy emphasis on how clinical trials have influenced current practice. Shows how radiobiological knowledge has influenced current practice such as the fractionation regimens for breast and prostate cancer Proton therapy; machines, dose measurement, covering the clinical advantages and pitfalls of this treatment modality. New radiotherapy modalities such as stereotactic radiotherapy, types of intensity modulated radiotherapy and imaged guided radiotherapy are comprehensively covered as are recent advances in chemotherapy and molecular targeted therapy. In depth coverage of dose measurement and new devices.

Comprehensive School Physical Activity Programs Russell Carson 2019-03-12 Schools are the ideal place to promote and apply the recommended accumulation of 60 minutes of daily physical activity. But until now, it has been difficult to bridge the gap between research in this area and day-to-day practice in order to establish solid programs. That's where Comprehensive School Physical Activity Programs: Putting Research Into Evidence-Based Practice comes in. CSPAP Model Brought to Life The comprehensive school physical activity program (CSPAP) model, originally outlined as a 2008 position statement by the National Association for Sport and Physical Education to promote physical activity throughout K-12, is brought to life through this comprehensive, all-in-one resource. In the decade since that position statement, CSPAP has been spreading through numerous initiatives, which have mobilized a CSPAP field of study and a national framework for physical activity and physical education. CSPAP acts as a hub, supporting physical activity through multiple components that can include physical education; physical activity before, during, and after school; staff involvement; and family and community engagement. Moreover, each CSPAP component can serve to strengthen and reinforce the academic goals of physical education. Accommodates Needs of Diverse Audiences Comprehensive School Physical Activity Programs, published in association with SHAPE America, accommodates the growing needs of academic researchers, school practitioners, district coordinators, educators, advocates, organizations, university faculty, and students who want to learn more about CSPAP or undertake ways to increase daily physical activity opportunities in and around schools. The Text's Strengths This text does all of the following and more: Synthesizes all the

foundational and emerging research, theory, and practice on CSPAP Synthesizes all the foundational and emerging research, theory, and practice on CSPAP Provides a higher- and deeper-level look at the CSPAP model, as opposed to short reports and position papers, which contain limited strategies for schools Offers much more in-depth coverage of the CSPAP model by delving into assessment, evaluation, advocacy, policy, partnerships, international perspectives, technology, and more Diverse and Renowned Team of Contributors Comprehensive School Physical Activity Programs was written by a diverse team of pioneers and leaders in the CSPAP field. This team brings national and international perspectives on all aspects related to implementing and maintaining CSPAP in K-12 schools. These recognized experts provide incisive guidance in, and understanding of, the most prominent concepts, issues, and developments in the field. Book Organization The text is organized into six sections: Part I provides the historical and foundational perspectives and policy landscapes of the CSPAP approach. Part II outlines internal, external, and psychological factors to consider in program design, implementation, and sustainability. In part III, the contributors examine and interpret the research on the effectiveness of established programs and previous interventions. Part IV highlights special considerations for effective programming within urban and rural settings, reviews current and ongoing international CSPAP initiatives, and addresses the application of the model to alternative contexts beyond the K-12 school setting. In part V, the contributors focus on using assessments to determine the physical activity promotion needs of a school community, on the instruments and procedures for measuring school-wide programming, and on the processes for evaluating and advocating for CSPAPs. Part VI examines current reform efforts within preprofessional programs in teacher education, reviews the tools and future potential for using technology to deliver and assess CSPAP efforts, and looks at future directions for the disciplines of study that inform the CSPAP knowledge base. Each chapter uses a format that opens with a review of current research, offers knowledge claims based on the research, notes knowledge gaps and directions for future research, offers evidence-based recommendations and applications, and concludes with questions to consider for discussion and case examples to demonstrate the practical recommendations. An Invaluable Resource The rapid growth of the field and the increasing number of diverse and exceptional scholars (many of whom are contributors to this book) are indications of the need for this resource. Comprehensive School Physical Activity Programs offers unique perspectives about how to generate and sustain successful initiatives to increase youth physical activity and promote long-term engagement in active behavior. It provides access to leading thought, invaluable tools, and challenging questions that will propel the CSPAP field to its next level of depth and clarity.

Thrive Martha Boyne 2018-05-18 Martha Boyne, Emily Clements and Ben Wright's Thrive: In your first three years in teaching equips trainee secondary school teachers with the know-how to lay the foundations for a successful career in teaching, long after the challenging first few years are over. Martha, Emily and Ben are thriving teachers. In Thrive they share their personal experiences and demonstrate how you too can thrive during the tricky training year, the daunting NQT year and the crucial RQT year. Using their collective insights, and plenty of evidence-informed strategies and advice, they detail how you can get to grips with the classroom basics - from behaviour management and lesson planning to differentiation and providing for SEND - and effectively continue your professional development. This book is not just a survival manual to help teachers get through their first three years in teaching. Nor is it an academic

text that has been written by authors who have only a distant memory of what it takes to stand in front of a class of teenagers for the first time. Thrive is something very different. It gives both the aspiring and the newly qualified the support and guidance to become a thriving teacher, and has been co-authored by three recently qualified teachers who in this book invest their passion and practical knowledge to inspire and inform others who want to pursue enjoyable and rewarding careers in teaching. Thrive is divided into three parts – specifically detailing what can be expected in the training year, NQT year and RQT year respectively – with the authors' commentary threaded throughout to demonstrate how the ideas discussed can be successfully put into practice. Their accounts are also complemented by expert advice from two people who are at the very top of their profession, Lianne Allison and Dr Simon Thompson, who provide wider perspectives drawn from a wealth of teaching experience. Forty of the book's forty-six chapters begin with a checklist outlining what a developing teacher is expected to do, and each chapter ends with a to-do list that can be used as a quick reference point to structure the strategies implemented. These to-do lists are also followed by lists of suggested further reading so that readers can delve deeper into topics and fields of research that they find particularly interesting or relevant. Furthermore, the book offers helpful counsel on choosing the best training route as well as an in-depth analysis of the change in priorities for busy teachers as they progress: encouraging constant reflection, outlining potential pathways and emphasising the importance of evidence-based practice and how new teachers can, and should, incorporate this into their teaching. Rooted in practical strategies and innovative ideas, Thrive is the essential guide for trainee secondary school teachers and teacher trainers.

Science Education Research and Practice in Asia Mei-Hung Chiu 2016-06-10 This book discusses the scope of science education research and practice in Asia. It is divided into five sections: the first consists of nine chapters providing overviews of science education in Asia (China, Lebanon, Macau, Malaysia, Mongolia, Oman, Singapore, Taiwan, and Thailand). The second section offers chapters on content analysis of research articles, while the third includes three chapters on assessment and curriculum. The fourth section includes four chapters on innovative technology in science education; and the fifth section consists of four chapters on professional development, and informal learning. Each section also has additional chapters providing specific comments on the content. This collection of works provides readers with a starting point to better understand the current state of science education in Asia.

Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics Vasant, Pandian 2016-03-08 Modern optimization approaches have attracted many research scientists, decision makers and practicing researchers in recent years as powerful intelligent computational techniques for solving several complex real-world problems. The Handbook of Research on Modern Optimization Algorithms and Applications in Engineering and Economics highlights the latest research innovations and applications of algorithms designed for optimization applications within the fields of engineering, IT, and economics. Focusing on a variety of methods and systems as well as practical examples, this book is a significant resource for graduate-level students, decision makers, and researchers in both public and private sectors who are seeking research-based methods for modeling uncertain real-world problems. .

Principles and Practice of Particle Therapy Timothy D. Malouff 2022-06-13

Principles and Practice of Particle Therapy Although radiation has been used therapeutically for over 100 years, the field of radiation oncology is currently in the midst of a renaissance, particularly with regards to the therapeutic use of particles. Over the past several years, access to particle therapy, whether it be proton therapy or other heavy ion therapy, has increased dramatically. Principles and Practice of Particle Therapy is a clinically oriented resource that can be referenced by both experienced clinicians and those who are just beginning their venture into particle therapy. Written by a team with significant experience in the field, topics covered include: Background information related to particle therapy, including the clinically relevant physics, radiobiological, and practical aspects of developing a particle therapy program "Niche" treatments, such as FLASH, BNCT, and GRID therapy The simulation process, target volume delineation, and unique treatment planning considerations for each disease site Less commonly used ions, such as fast neutrons or helium Principles and Practice of Particle Therapy is a go-to reference work for any health professional involved in the rapidly evolving field of particle therapy.

Handbook of Research on Creating Spaces for African Epistemologies in the Inclusive Education Discourse Maguvhe, Mbulaheni Obert 2021-12-31 Students with disabilities who are not able to perform to the best of their abilities often find themselves learning in inaccessible environments and subjected to increased stress levels due to the haphazard provisioning of education characterized by physical, communicative, and unsuitable teaching and learning approaches. Very often this is a result of various shortcomings including unfair assessment practices. Misconceptions and a lack of knowledge with regard to the implementation of inclusive education detract from the successful admission of students with disabilities and their retention and active participation. The Handbook of Research on Creating Spaces for African Epistemologies in the Inclusive Education Discourse explores the concept of inclusive education in an African context. It advocates for the monitoring and evaluation of inclusive education and proposes interventions where reasonable accommodation or lack of accessibility is a reason for students with disabilities to not benefit from this system. Covering topics such as barriers to learning, rural schools, and student support, this major reference work is an essential resource for administrators, advocates for students with disabilities, policymakers, researchers, pre-service teachers, educators, academicians, and students.

Essentials of Cardiopulmonary Physical Therapy - E-Book Ellen Hillegass 2016-03-22 Improve your understanding of the cardiopulmonary system with Essentials of Cardiopulmonary Physical Therapy, 4th Edition. Based on best practices prescribed in The Guide to Physical Therapist Practice, this new edition provides comprehensive coverage of anatomy, physiology, and cardiopulmonary assessment, along with expanded chapters on the growing topics of early mobilization of the ICU patient and acute care management. Using a practical approach, expert author Ellen Hillegass also discusses pathophysiology, pharmacology, and interventions in the outpatient setting. Evidence-based content reflects the latest research in the field and incorporates the use of ICF. Material uses best practices defined by the American Physical Therapy Association. Clinical tips give you real-world hints and suggestions from practicing clinicians. NEW! Expanded chapters cover early mobilization of the ICU patient and acute care management. NEW! Updated references emphasize evidence-based information from the text. NEW! Full-color printing enhances text.

The Oxford Handbook of Psychological Situations John F. Rauthmann 2020-07-29
Résumé : This handbook is currently in development, with individual articles publishing online in advance of print publication. At this time, we cannot add information about unpublished articles in this handbook, however the table of contents will continue to grow as additional articles pass through the review process and are added to the site. Please note that the online publication date for this handbook is the date that the first article in the title was published online.

AISTSSE 2018 Martina Restuati 2019-10-04 This book contains the proceedings of the The 5th Annual International Seminar on Trends in Science and Science Education (AISTSSE) and The 2nd International Conference on Innovation in Education, Science and Culture (ICIESC), where held on 18 October 2018 and 25 September 2018 in same city, Medan, North Sumatera. Both of conferences were organized respectively by Faculty of Mathematics and Natural Sciences and Research Institute, Universitas Negeri Medan. The papers from these conferences collected in a proceedings book entitled: Proceedings of 5th AISTSSE. In publishing process, AISTSSE and ICIESC were collaboration conference presents six plenary and invited speakers from Australia, Japan, Thailand, and from Indonesia. Besides speaker, around 162 researchers covering lecturers, teachers, participants and students have attended in this conference. The researchers come from Jakarta, Yogyakarta, Bandung, Palembang, Jambi, Batam, Pekanbaru, Padang, Aceh, Medan and several from Malaysia, and Thailand. The AISTSSE meeting is expected to yield fruitful result from discussion on various issues dealing with challenges we face in this Industrial Revolution (RI) 4.0. The purpose of AISTSSE is to bring together professionals, academics and students who are interested in the advancement of research and practical applications of innovation in education, science and culture. The presentation of such conference covering multi disciplines will contribute a lot of inspiring inputs and new knowledge on current trending about: Mathematical Sciences, Mathematics Education, Physical Sciences, Physics Education, Biological Sciences, Biology Education, Chemical Sciences, Chemistry Education, and Computer Sciences. Thus, this will contribute to the next young generation researches to produce innovative research findings. Hopely that the scientific attitude and skills through research will promote Unimed to be a well-known university which persist to be developed and excelled. Finally, we would like to express greatest thankful to all colleagues in the steering committee for cooperation in administering and arranging the conference. Hopefully these seminar and conference will be continued in the coming years with many more insight articles from inspiring research. We would also like to thank the invited speakers for their invaluable contribution and for sharing their vision in their talks. We hope to meet you again for the next conference of AISTSSE.

Teaching, Learning & Assessing Science 5-12 Wynne Harlen 2000 A new and totally revised edition of Teaching and Learning Primary Science. The author provides a theoretical rationale for why science should be taught in particular ways, and ideas and examples of how to do it.

Eurasian Business and Economics Perspectives Mehmet Huseyin Bilgin 2021-09-30 This book presents selected papers from the 32nd Eurasia Business and Economics Society (EBES) Conference - Istanbul. Due to the COVID-19 restrictions, the conference presentation mode has been switched to "online/virtual presentation only". The theoretical and empirical papers gathered here cover diverse areas of business, economics and finance in various geographic regions, including not only topics from HR, management, finance, marketing but also contributions on

public economics, political economy and regional studies.

Multiple Representations in Physics Education David F. Treagust 2017-07-24 This volume is important because despite various external representations, such as analogies, metaphors, and visualizations being commonly used by physics teachers, educators and researchers, the notion of using the pedagogical functions of multiple representations to support teaching and learning is still a gap in physics education. The research presented in the three sections of the book is introduced by descriptions of various psychological theories that are applied in different ways for designing physics teaching and learning in classroom settings. The following chapters of the book illustrate teaching and learning with respect to applying specific physics multiple representations in different levels of the education system and in different physics topics using analogies and models, different modes, and in reasoning and representational competence. When multiple representations are used in physics for teaching, the expectation is that they should be successful. To ensure this is the case, the implementation of representations should consider design principles for using multiple representations. Investigations regarding their effect on classroom communication as well as on the learning results in all levels of schooling and for different topics of physics are reported. The book is intended for physics educators and their students at universities and for physics teachers in schools to apply multiple representations in physics in a productive way.

Cases on Research-Based Teaching Methods in Science Education de Silva, Eugene 2014-08-31 While the great scientists of the past recognized a need for a multidisciplinary approach, today's schools often treat math and science as subjects separate from the rest. This not only creates a disinterest among students, but also a potential learning gap once students reach college and then graduate into the workforce. *Cases on Research-Based Teaching Methods in Science Education* addresses the problems currently facing science education in the USA and the UK, and suggests a new hands-on approach to learning. This book is an essential reference source for policymakers, academicians, researchers, educators, curricula developers, and teachers as they strive to improve education at the elementary, secondary, and collegiate levels.

Handbook of Automated Scoring Duanli Yan 2020-02-26 "Automated scoring engines [...] require a careful balancing of the contributions of technology, NLP, psychometrics, artificial intelligence, and the learning sciences. The present handbook is evidence that the theories, methodologies, and underlying technology that surround automated scoring have reached maturity, and that there is a growing acceptance of these technologies among experts and the public." From the Foreword by Alina von Davier, ACTNext Senior Vice President *Handbook of Automated Scoring: Theory into Practice* provides a scientifically grounded overview of the key research efforts required to move automated scoring systems into operational practice. It examines the field of automated scoring from the viewpoint of related scientific fields serving as its foundation, the latest developments of computational methodologies utilized in automated scoring, and several large-scale real-world applications of automated scoring for complex learning and assessment systems. The book is organized into three parts that cover (1) theoretical foundations, (2) operational methodologies, and (3) practical illustrations, each with a commentary. In addition, the handbook includes an introduction and synthesis chapter as well as a cross-chapter glossary.

Success with STEM Sue Howarth 2014-11-13 *Success with STEM* is an essential

resource, packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school. It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school. It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom. Illustrated with examples of successful projects in real schools, this friendly, inspiring book explores: Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting-up and enhancing your own STEM club Getting involved in STEM competitions, fairs and festivals Promoting STEM careers and tackling stereotypes Health, safety and legal issues Examples of international projects An wide-ranging list of project and activity titles Enriched by the authors' extensive experience and work with schools, Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life-long interest in STEM learning in their students. The advice and guidance will be invaluable for all teachers, subject leaders, trainee teachers and NQTs.

Evolution of Ionizing Radiation Research Mitsuru Neno 2015-09-17 The industrial and medical applications of radiation have been augmented and scientific insight into mechanisms for radiation action notably progressed. In addition, the public concern about radiation risk has also grown extensively. Today the importance of risk communication among stakeholders involved in radiation-related issues is emphasized much more than any time in the past. Thus, the circumstances of radiation research have drastically changed, and the demand for a novel approach to radiation-related issues is increasing. It is thought that the publication of the book Evolution of Ionizing Radiation Research at this time would have enormous impacts on the society. The editor believes that technical experts would find a variety of new ideas and hints in this book that would be helpful to them to tackle ionizing radiation.

Science Education in Canada Christine D. Tippett 2019-07-01 This book offers a meso-level description of demographics, science education, and science teacher education. Representing all 13 Canadian jurisdictions, the book provides local insights that serve as the basis for exploring the Canadian system as a whole and function as a common starting point from which to identify causal relationships that may be associated with Canada's successes. The book highlights commonalities, consistencies, and distinctions across the provinces and territories in a thematic analysis of the 13 jurisdiction-specific chapters. Although the analysis indicates a network of policy and practice issues warranting further consideration, the diverse nature of Canadian science education makes simple identification of causal relationships elusive. Canada has a reputation for strong science achievement. However, there is currently limited literature on science education in Canada at the general level or in specific areas such as Canadian science curriculum or science teacher education. This book fills that gap by presenting a thorough description of science education at the provincial/territorial level, as well as a more holistic description of pressing issues for Canadian science education.

Reaching Students Linda Kober 2015-01-15 The undergraduate years are a turning point in producing scientifically literate citizens and future scientists and engineers. Evidence from research about how students learn science and engineering shows that teaching strategies that motivate and engage students

will improve their learning. So how do students best learn science and engineering? Are there ways of thinking that hinder or help their learning process? Which teaching strategies are most effective in developing their knowledge and skills? And how can practitioners apply these strategies to their own courses or suggest new approaches within their departments or institutions? "Reaching Students" strives to answer these questions. "Reaching Students" presents the best thinking to date on teaching and learning undergraduate science and engineering. Focusing on the disciplines of astronomy, biology, chemistry, engineering, geosciences, and physics, this book is an introduction to strategies to try in your classroom or institution. Concrete examples and case studies illustrate how experienced instructors and leaders have applied evidence-based approaches to address student needs, encouraged the use of effective techniques within a department or an institution, and addressed the challenges that arose along the way. The research-based strategies in "Reaching Students" can be adopted or adapted by instructors and leaders in all types of public or private higher education institutions. They are designed to work in introductory and upper-level courses, small and large classes, lectures and labs, and courses for majors and non-majors. And these approaches are feasible for practitioners of all experience levels who are open to incorporating ideas from research and reflecting on their teaching practices. This book is an essential resource for enriching instruction and better educating students.

Orthopedic Interventions for the Physical Therapist Assistant Maureen Raffensperg 2019-11-05 First laying the foundation of the role of the PTA within the orthopedic plan of care, this text offers students the fundamental knowledge needed to best understand how the PT evaluates a patient. From principles of tissue healing to detailed descriptions of the most common pathologies, tests and interventions for each body region, this text prepares the PTA for best patient education and care.

Handbook of Sport Psychology Gershon Tenenbaum 2020-03-31 The fourth edition of a classic, leading resource for the field of sport, exercise, and performance psychology. Now expanded to two volumes, and featuring a wealth of new chapters from highly respected scholars in the field, this all-new edition of the Handbook of Sports Psychology draws on an international roster of experts and scholars in the field who have assembled state-of-the-art knowledge into this thorough, well-rounded, and accessible volume. Endorsed by the International Society of Sport Psychology, it represents an invaluable source of theoretical and practical information on our understanding of the role of psychology in sport, exercise, and performance—and how that understanding can be applied in order to improve real-world outcomes. Presented in eight parts, the Handbook of Sports Psychology, 4th Edition adds new material on emerging areas such as mindfulness, brain mapping, self-consciousness, and mental toughness, and covers special topics such as gender and cultural diversity, athletes with disabilities, and alcohol and drug use in sports. In addition, it covers classic topics such as what motivates an athlete to perform; why do some choke under pressure; how do top performers handle leadership roles; what does one do to mentally train; how an athlete deals with injury; and much more. Fourth edition of the most influential reference work for the field of sport psychology. New coverage includes mindfulness in sport and exercise psychology, ethics, mental toughness, sport socialization, and making use of brain technologies in practice. Endorsed by the International Society of Sport Psychology (ISSP) Handbook of Sports Psychology, 4th Edition is an indispensable resource for any student or professional interested in the field of sports psychology.

Ships and Offshore Structures XIX Carlos Guedes Soares 2015-09-03 This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

Cognition, Metacognition, and Culture in STEM Education Yehudit Judy Dori 2017-12-01 This book addresses the point of intersection between cognition, metacognition, and culture in learning and teaching Science, Technology, Engineering, and Mathematics (STEM). We explore theoretical background and cutting-edge research about how various forms of cognitive and metacognitive instruction may enhance learning and thinking in STEM classrooms from K-12 to university and in different cultures and countries. Over the past several years, STEM education research has witnessed rapid growth, attracting considerable interest among scholars and educators. The book provides an updated collection of studies about cognition, metacognition and culture in the four STEM domains. The field of research, cognition and metacognition in STEM education still suffers from ambiguity in meanings of key concepts that various researchers use. This book is organized according to a unique manner: Each chapter features one of the four STEM domains and one of the three themes—cognition, metacognition, and culture—and defines key concepts. This matrix-type organization opens a new path to knowledge in STEM education and facilitates its understanding. The discussion at the end of the book integrates these definitions for analyzing and mapping the STEM education research. Chapter 4 is available open access under a Creative Commons Attribution 4.0 International License via link.springer.com

Practical Aspects of Rape Investigation Robert R. Hazelwood 2016-11-25 This latest edition addresses rape and sexual assaults from all clinical, pathological, medical, and legal aspects. The book focuses on the victim and covers contemporary issues in sexual violence, investigative aspects of rape and sexual assault, offender fantasy, the personality of the offender, collection of evidence, medical examinations, and treatment, as well as trial preparation issues. Special topics include pedophiles, female and juvenile offenders, drug-facilitated rape, sexual sadism, elder abuse, and sexual assault within the military.

Self-Directed Learning Elsa Mentz 2021-12-31 This book on self-directed learning (SDL) is devoted to original academic scholarship within the field of education, and is the 6th volume in the North-West University (NWU) SDL book series. In this book the authors explore how self-directed learning can be considered an imperative for education in a complex modern society. Although each chapter represents independent research in the field of self-directed learning, the chapters form a coherent contribution concerning the scholarship of self-directed learning, and specifically the effect of environmental and praxis contexts on the enhancement of self-directed learning in a complex society. The publication as a whole provides diverse perspectives on the importance of self-directed learning in varied contexts. Scholars working in a wide range of fields are drawn together in this scholarly work to present a comprehensive dialogue regarding self-directed learning and how this concept functions in a complex and dynamic higher education context. This book presents a combination of theory and practice, which reflects selected conceptual dimensions of self-directed learning in society, as well as research-based findings pertaining to current topical issues relating to implementing self-

directed learning in the modern world. The varied methodologies provide the reader with different and balanced perspectives, as well as varied and innovative ideas on how to conduct research in the field of self-directed learning.

11th International Conference on Cyber Warfare and Security Dr Tanya Zlateva and Professor Virginia Greiman 2016 The 11th International Conference on Cyber Warfare and Security (ICCWS 2016) is being held at Boston University, Boston, USA on the 17-18th March 2016. The Conference Chair is Dr Tanya Zlateva and the Programme Chair is Professor Virginia Greiman, both from Boston University. ICCWS is a recognised Cyber Security event on the International research conferences calendar and provides a valuable platform for individuals to present their research findings, display their work in progress and discuss conceptual and empirical advances in the area of Cyber Warfare and Cyber Security. It provides an important opportunity for researchers and managers to come together with peers to share their experiences of using the varied and expanding range of Cyberwar and Cyber Security research available to them. The keynote speakers for the conference are Daryl Haegley from the Department of Defense (DoD), who will address the topic Control Systems Networks...What's in Your Building? and Neal Ziring from the National Security Agency who will be providing some insight to the issue of Is Security Achievable? A Practical Perspective. ICCWS received 125 abstract submissions this year. After the double blind, peer review process there are 43 Academic Research Papers 8 PhD papers Research papers, 7 Masters and 1 work-in-progress papers published in these Conference Proceedings. These papers represent work from around the world, including: Australia, Canada, China, Czech Republic, District of Columbia, Finland, France, Israel, Japan, Lebanon, Netherlands, Pakistan, Russian Federation, Saudi Arabia, South Africa, Turkey, United Arab Emirates, UK, USA.

Teaching and Learning in Higher Education Elizabeth Cleaver 2014-03-31 In today's higher education climate academic staff are encouraged to focus not only on the up-to-date content of their teaching, but also to identify the most effective ways to engage students in learning, often alongside other key transferrable skills. This had led to a growing requirement for staff to adopt a scholarly approach to learning and teaching practice, and to undertake scholarship of learning and teaching as part of ongoing professional development. This text explores broad best practice approaches to undertaking enquiry into learning and teaching in higher education. It provides an introduction for staff who have been educated within a range of academic disciplines, often with high-level but very focused knowledge about, and understandings of, research processes to the potentially new world of educational enquiry. This is complemented by chapters exploring what educational enquiry means in the context of different academic disciplines, including physical sciences, mathematics, engineering, the life sciences, the arts, the humanities, the health professions, and law. It also includes: An overview of research methodology including data collection, literature reviews, good ethical practice, and research dissemination Case studies of actual research projects to support understanding of how to carry out educational enquiry in practice. Lecturers, why waste time waiting for the post arrive? Request and receive your e-inspection copy today!

Teacher Subject Identity in Professional Practice Clare Brooks 2016-03-31 *Teacher Subject Identity in Professional Practice* focuses on a key, but neglected, element of a teacher's identity: that of their subject expertise.

Studies of teachers' professional practice have shown the importance of a teacher's identity and the extent to which it can affect their resilience, commitment and ultimately their effectiveness. Drawing upon narrative research undertaken with a range of teachers over a period of 14 years, the book explores how subject expertise can play a significant role in teacher identity, acting as a professional compass guiding teachers at all levels of their professional practice. It reveals powerful individual stories of meaning-making which highlight the dynamic importance of teachers' subject expertise. The book's metaphor of a professional compass goes to the heart of teacher professionalism, and provides a valuable mechanism to enable teachers to respond to challenges they face in their daily practice. It enables teachers to consider the moral dimensions of their practice, and can constitute a significant component in professional formation and identity. Throughout the book the importance of subject expertise for teachers' professional practice is explored at a range of scales: from the classroom to broad education policy, and at different stages of a teacher's career which offers readers a deeper understanding of the importance of subject expertise for teachers. *Teacher Subject Identity in Professional Practice* makes a significant contribution to an under-researched area. It identifies the role and significance of teachers' subject expertise as a dimension of their teacher identity. The book is key reading for teacher educators, policy makers and researchers with an interest in teachers' professional development and practice.