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Creating Stellar Lessons with Digital Tools

From Integration to Innovation in Technology-Enhanced Teaching

Routledge **Creating Stellar Lessons with Digital Tools prepares teachers in training and in-service teachers to use technologies for design and development activities with middle and high school students. While software, open resources, handheld devices, and other tools hold great potential to enhance learning experiences, teachers themselves must model technology use in ways that inspire students to become producers and leaders rather than consumers and followers. Featuring concrete applications in social studies, English, mathematics, and science scenarios, this book provides pre-service teachers with seven paths to creatively integrate and innovate with computational thinking, datasets, maker spaces, visual design, media editing, and other approaches.**

Behavioral Science & Policy

Brookings Institution Press **The success of nearly all public- and private- sector policies hinges on the behavior of individuals, groups, and organizations. Today, such behaviors are better understood than ever, thanks to a growing body of practical behavioral science research. However, policymakers often are unaware of behavioral science findings that may help them craft and execute more effective and efficient policies. The pages of this new journal will become a meeting ground: a place where scientists and non-scientists can encounter clearly described behavioral research that can be put into action. By design, the scope of BSP is broad, with topics spanning health care, financial decisionmaking, energy and the environment, education and culture, justice and ethics, and work place practices. Contributions will be made by researchers with expertise in psychology, sociology, law, behavioral economics, organization science, decision science, and marketing. The journal is a key offering of the Behavioral Science & Policy Association in partnership with the Brookings Institution. The mission of BSPA is to foster dialog between social scientists, policymakers, and other practitioners in order to promote the application of rigorous empirical behavioral science in ways that serve the public interest. BSPA does not advance a particular agenda or political perspective. The first issue's contents follow. Behavioral Science & Policy, vol. 2, no. 1 Table of Contents: Editors' Note Spotlight—Pre-Kindergarten Interventions: American Policy on Early Childhood Education & Development: Many Programs, Great Hopes, Modest Prospects, Ron Haskins Evidence for the Benefits of State Prekindergarten Programs: Myth & Misrepresentation, Dale C. Farran & Mark W. Lipsey Reforming Head Start for the 21st Century: A Policy Prescription, Sara Mead & Ashley LiBetti Mitchel Home Visiting Programs: Four Evidence-Based Lessons for Policymakers, Cynthia Osborne Launching Preschool 2.0: A Road Map to High-Quality Public Programs at Scale, Christina Weiland A 10-Year Strategy of Increased Coordination & Comprehensive Investments in Early Child Development, Ajay Chaudry & Jane Waldfogel Reimagining Accountability in K-12 Education, Brian P. Gill, Jennifer S. Lerner, & Paul Meosky Featured Topic: Healthy Through Habit: Interventions for Initiating & Maintaining Health Behavioral Change, Wendy Wood & David Neal Making the Truth Stick & the Myths Fade: Lessons from Cognitive Psychology, Norbert Schwarz, Eryn Newman, & William Leach Editorial Policy**

Informed is best

How to spot fake news about your pregnancy, birth and baby

Pinter & Martin **From the moment you share the news that you are pregnant or have a new baby it feels like everyone becomes an expert. Did you see that headline? Did you hear that story on TV? Have you heard the latest about what they say is best? In a world overflowing with information telling you what is best for you and your baby, making decisions can feel overwhelming. Who do you trust? Who is telling the truth? And how do you know if what they are**

saying is right for you? How? By becoming your own expert in sorting the media spin and politics from the actual facts and data. This isn't a book that is going to tell you which decisions to make, or that there is ever one right answer. It is not going to tell you that the same thing is always best for everyone. Instead this is a guide to help you evaluate information and evidence to decide what is right for you, your body and your baby. In three main parts it will firstly open your eyes to how information is shared in the media and how this can affect our thinking and decision making. Next it will help you spot who is funding, leading and promoting research and how this can affect the content of what is shared. Finally it will talk you through reading, understanding and evaluating evidence for yourself across topics in pregnancy, birth and caring for babies. You'll learn how to spot weaknesses in methods used, how to determine the real risk for you and your baby, and how wider context and other factors can influence what research means for you. Information is power. Making your own decisions that are right for you is empowering. #Informed is best.

What Makes a World-Class School and How We Can Get There

ASCD For years, students in the United States have lagged behind students in many other countries on such measures of achievement as the PISA and TIMSS assessments. In an increasingly globalized world, such a gap is worrisome. Armed with statistics, examples, and cautionary tales from Scandinavia to Japan, James H. Stronge and Xianxuan Xu have written a book that can help educators better prepare students and close that gap. In What Makes a World-Class School and How We Can Get There, you will find * Careful analysis of recent international assessment results—what they mean and what can be done to improve them. * In-depth profiles of high-achieving education systems around the globe—their histories, their lessons learned, and what they can teach educators and policymakers in the United States. * Strategies for aligning successful educational approaches from international systems to U.S. schools—which strategies to use, in which subjects, and with which students. * Transformative ideas for cultivating a truly world-class system of schooling—both simple and complex ways to raise the bar for all students, no matter what their background. Educators in every country must ensure that their students are as prepared as possible to lead a future generation of citizens. This thought-provoking and copiously researched book provides educators with a blueprint for radical improvement based on the hard-learned experiences of their peers around the world.

Let's Talk Toddlers

A Practical Guide to High-Quality Teaching

Redleaf Press This is a user-friendly book that speaks to the realities, challenges, and needs of daily life with rambunctious, enthusiastic, unpredictable toddlers in group settings, thus increasing the quality of toddler care. This book highlights informative and real-life examples, with immediate takeaway action steps that detail solutions and resources for practice.

Primary Science Education in East Asia

A Critical Comparison of Systems and Strategies

Springer This edited volume is a state-of-the-art comparison of primary science education across six East-Asian regions; namely, the People's Republic of China, Republic of Korea, Republic of China, Hong Kong SAR, Japan, and Singapore. While news of educational policies, classroom teaching, assessment, and other educational innovations here often surface in the international media, this book brings together for the first time relevant information regarding educational systems and strategies in primary science in East Asia. Above all, it is a readable yet comprehensive survey—readers would have an accurate sense of what has been accomplished, what has not worked so well, and what remains to be done. Invited experts in comparative education research and/or science education also provide commentary by discussing common themes across the six regions. These types of critical synoptic reviews add much value by enabling readers to understand broad commonalities and help synthesize what must surely be a bewildering amount of very interesting albeit confusing body of facts, issues, and policies. Education in East Asia holds many lessons (both positive and negative) to offer to the rest of the world to which this volume is a timely contribution to the literature.

Count Girls In

Empowering Girls to Combine Any Interests with STEM to

Open Up a World of Opportunity

Chicago Review Press **To succeed in science and tech fields today, girls don't have to change who they are. A girl who combines her natural talents, interests, and dreams with STEM skills has a greater shot at a career she loves and a salary she deserves. The authors present compelling research in a conversational, accessible style and provide specific advice and takeaways for each stage of schooling from elementary school through college, followed by comprehensive STEM resources. This isn't a book about raising competitive, test-acing girls in lab coats; this is about raising happy, confident girls who realize the world of opportunities before them.**

Communities in Action

Pathways to Health Equity

National Academies Press **In the United States, some populations suffer from far greater disparities in health than others. Those disparities are caused not only by fundamental differences in health status across segments of the population, but also because of inequities in factors that impact health status, so-called determinants of health. Only part of an individual's health status depends on his or her behavior and choice; community-wide problems like poverty, unemployment, poor education, inadequate housing, poor public transportation, interpersonal violence, and decaying neighborhoods also contribute to health inequities, as well as the historic and ongoing interplay of structures, policies, and norms that shape lives. When these factors are not optimal in a community, it does not mean they are intractable: such inequities can be mitigated by social policies that can shape health in powerful ways. Communities in Action: Pathways to Health Equity seeks to delineate the causes of and the solutions to health inequities in the United States. This report focuses on what communities can do to promote health equity, what actions are needed by the many and varied stakeholders that are part of communities or support them, as well as the root causes and structural barriers that need to be overcome.**

Sri Lanka Education Sector Assessment

Achievements, Challenges, and Policy Options

World Bank Publications **A country's education system plays a pivotal role in promoting economic growth and shared prosperity. Sri Lanka has enjoyed high school-attainment and enrollment rates for several decades. However, it still faces major challenges in the education sector, and these challenges undermine the country's inclusivegrowth goal and its ambition to become a competitive upper-middle-income country. The authors of Sri Lanka Education Sector Assessment: Achievements, Challenges, and Policy Options offer a thorough review of Sri Lanka's education sector—from early childhood education through higher education. With this book, they attempt to answer three questions: • How is Sri Lanka's education system performing, especially with respect to participation rates, learning outcomes, and labor market outcomes? • How can the country address the challenges at each stage of the education process, taking into account both country and international experience and also best practices? • Which policy actions should Sri Lanka make a priority for the short and medium term? The authors identify the most critical constraints on performance and present strategic priorities and policy options to address them. To attain inclusive growth and become globally competitive, Sri Lanka needs to embark on integrated reforms across all levels of education. These reforms must address both short-term skill shortages and long-term productivity. As Sri Lanka moves up the development ladder, the priorities of primary, secondary, and postsecondary education must be aligned to meet the increasingly complex education and skill requirements.**

Fermentation and Algal Biotechnologies for the Food, Beverage and Other Bioproduct Industries

CRC Press **This book covers a range of important topics on dairy and fermented foods and microalgae biotechnologies for food, beverage and bioproduct industries. The topics range from traditionally fermented African foods, fermentation technologies for large-scale industrial enzyme production to microalgae cultivation and nutraceuticals in Africa, etc. The editors provide detailed information on approaches towards harnessing indigenous bioresources for food and nutrition security, climate change adaptation, industrial enzyme production, environmental remediation and healthcare delivery. The book will be useful reference material for scientists and researchers working in the field of dairy and food biotechnology, fermentation technology, enzyme biotechnology, algal biotechnology and cultivation systems, biofuels and other bioproducts from algal biomass and underutilized and novel African food sources. Emphasizes recent advances in biotechnologies that could ameliorate the high-level global food insecurity through fermentation technologies applicable to traditional African indigenous and underutilized novel foods, algal biotechnology and value-added bioproducts Provides detailed information on how to harness indigenous bioresources including microalgae for food and nutrition security, climate change adaptation, industrial enzyme production, environmental remediation and healthcare delivery Introduces new frontiers in the area of large-scale enzyme**

production using fermentation biotechnologies and their applications in the food and beverage industries Discusses current biotechnologies applicable in the food, beverage and bioproduct industries James Chukwuma Ogbonna, Ph.D., is a Professor of Microbiology and Biotechnology, and Director, National Biotechnology Development Agency, South East Zonal Biotechnology Centre, University of Nigeria, Nsukka, Nigeria. Sylvia Uzochukwu, Ph.D., is a Professor of Food Science and Biotechnology, and Director, Biotechnology Centre, Federal University, Oye-Ekiti, Nigeria. Emeka Godfrey Nwoba, Ph.D., is a research scholar at the Algae Research & Development Centre, Murdoch University, Western Australia. Charles Oluwaseun Adetunji, Ph.D., is an Associate Professor of Microbiology and Biotechnology, and Director of Intellectual Property and Technology Transfer, Edo State University Uzairue, Nigeria. Nwadiuto (Diuoto) Esiobu, Ph.D., is a Professor of Microbiology and Biotechnology at Florida Atlantic University, Boca Raton, FL, USA, and the President and Founder of Applied Biotech Inc. and ABINL, Abuja, Nigeria. Abdulrazak B. Ibrahim, Ph.D., is a Capacity Development Expert at the Forum for Agricultural Research in Africa (FARA), and Associate Professor of Biochemistry, Ahmadu Bello University, Zaria, Nigeria. Benjamin Ewa Ubi, Ph.D., is a Professor of Plant Breeding and Biotechnology and Director, Biotechnology Research and Development Centre, Ebonyi State University, Abakaliki, Nigeria.

The Connected Parent

An Expert Guide to Parenting in a Digital World

Basic Books **An essential guide for parents navigating the new frontier of hyper-connected kids. Today's teenagers spend about nine hours per day online. Parents of this ultra-connected generation struggle with decisions completely new to parenting: Should an eight-year-old be allowed to go on social media? How can parents help their children gain the most from the best aspects of the digital age? How can we keep kids safe from digital harm? John Palfrey and Urs Gasser bring together over a decade of research at Harvard to tackle parents' most urgent concerns. The Connected Parent is required reading for anyone trying to help their kids flourish in the fast-changing, uncharted territory of the digital age.**

Interrupting Class Inequality in Higher Education

Leadership for an Equitable Future

Taylor & Francis **Interrupting Class Inequality in Higher Education explores why socioeconomic inequality persists in higher education despite widespread knowledge of the problem. Through a critical analysis of the current leadership practices and policy narratives that perpetuate socioeconomic inequality, this book outlines the trends that negatively impact low- and middle-income students and offers effective tools for creating a more equitable future for higher education. By taking a solution-focused approach, this book will help higher education students, leaders, and policy makers move from despair and inertia to hope and action.**

The Education Invasion

How Common Core Fights Parents for Control of American Kids

Encounter Books **Most Americans had no idea what Common Core was in 2013, according to polls. But it had been creeping into schools nationwide over the previous three years, and children were feeling its effects. They cried over math homework so mystifying their parents could not help them, even in elementary school. They read motley assortments of "informational text" instead of classic literature. They dreaded the high-stakes tests, in unfamiliar formats, that were increasingly controlling their classrooms. How did this latest and most sweeping "reform" of American education come in mostly under the radar? Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers, and it led to a big tangle of history and politics, intrigue and arrogance. She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K–12 classes, and how the Obama administration pressured states to adopt them. Thus a federalized education scheme took root, despite legal prohibitions against federal involvement in curriculum. Common Core and its testing regime were touted as "an absolute game-changer in public education," yet the evidence so far suggests that kids are actually learning less under it. Why, then, was such a costly and disruptive agenda imposed on the nation's schools? Who benefits? And how can citizens regain local self-governance in education, so their children's minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats? The Education Invasion offers answers and remedies.**

Foundation of Digital Badges and Micro-Credentials

Demonstrating and Recognizing Knowledge and Competencies

<u>Springer</u> **This edited volume provides insight into how digital badges may enhance formal, non-formal and informal education by focusing on technical design issues including organizational requirements, learning and instructional design, as well as deployment. It features current research exploring the theoretical foundation and empirical evidence of the utilization of digital badges as well as case studies that describe current practices and experiences in the use of digital badges for motivation, learning, and instruction in K-12, higher education, workplace learning, and further education settings.**

Innovation in China

The Tail of the Dragon

<u>Business Expert Press</u> **The word innovation is often used today regarding China, as if the concept were new to the Eastern country. Most people know, however, that China was a juggernaut in creating new technologies and at one time was the innovation king of the world- but that was at least seven centuries ago! Today, the great oriental power is attempting once again to take the throne of innovation for its own. This desire to usurp the throne, which had been diligently taken by the West during the Scientific Revolution, has placed an almost unrealistic emphasis on innovation. In Innovation in China: The Tail of the Dragon, the author explores the issues and actors involved in making innovation the emphasis in China. He uses a simple systems model of innovation and various perceptual lenses. The lenses are aimed at the historical, economic, political, legal, educational and cultural elements of an innovation-based society. After reading the book the reader will understand more about how innovation is happening in China and by whom. More importantly, the reader will begin a journey of learning more about where the country is going as it relentlessly continues its drive to create an innovation-based society and to become once again, in terms appropriate to its history, the 'Emperor of Innovation'.**

Fail U.

The False Promise of Higher Education

<u>St. Martin's Press</u> **The cost of a college degree has increased by 1,125% since 1978—four times the rate of inflation. Total student debt has surpassed $1.3 trillion. Nearly two thirds of all college students must borrow to study, and the average student graduates with more than $30,000 in debt. Many college graduates under twenty-five years old are unemployed or underemployed. And professors—remember them?—rarely teach undergraduates at many major universities, instead handing off their lecture halls to cheaper teaching assistants. So, is it worth it? That's the question Charles J. Sykes attempts to answer in Fail U., exploring the staggering costs of a college education, the sharp decline in tenured faculty and teaching loads, the explosion of administrative jobs, the grandiose building plans, and the utter lack of preparedness for the real world that many now graduates face. Fail U. offers a different vision of higher education; one that is affordable, more productive, and better-suited to meet the needs of a diverse range of students—and one that will actually be useful in their future careers and lives.**

Women in Science and Technology

Confronting Inequalities

<u>SAGE Publishing India</u> **Women in Science and Technology: Confronting Inequalities comprehensively explores women's status in the Science and Technology (S&T) domain by rigorously analysing and interpreting extensive recent information on major areas such as engineering, medicine, physical sciences, biosciences and mathematics. The book forcefully demonstrates that gender-based differences and expectations play the determining role in limiting women's participation in S&T. These exist in various forms, from making subject choices in school and opting for specific disciplines in college to embracing specific career avenues such as scientific research. This book shows how the construction of gendered identities is perpetuated through a masculine culture in the informal environment of elite educational institutes and in major S&T workplaces such as academia and research laboratories, which serve together to exclude women from peer groups and opportunities for advancement. The book makes substantive recommendations for policy measures on college admissions, improvement of institutional and organizational environments, and recruitment and capacity building for women in S&T. It calls for substantially reducing the myriad societal and familial barriers through cooperation and understanding.**

Handbook on Teaching and Learning in Political Science and International Relations

Edward Elgar Publishing **With a focus on providing concrete teaching strategies for scholars, the Handbook on Teaching and Learning in Political Science and International Relations blends both theory and practice in an accessible and clear manner. In an effort to help faculty**

Global Approaches to Early Learning Research and Practice

New Directions for Child and Adolescent Development, Number 158

John Wiley & Sons **The health, development, and learning of many young children living in disadvantage areas are at serious risk. Access to education has improved under the United Nations Millennium Development Goals, and there are now programs in low- and middle-income countries that are aimed at improving instruction and learning. The research and evaluation on the effectiveness of such programs show there are significant challenges, but also some successes. This issue features presentations of leading international scientists, representatives from key governmental and non-governmental organizations, and others working with programs in the developing world and disadvantaged populations. The presentations describe the goals, existing challenges, and potential approaches to providing evidence-based programs to young children in rural, remote, and poverty stricken areas. Topics covered include: the state of early childhood in low and middle income nations, programs that have shown some success, and innovative research approaches that have been often considered unfeasible in these contexts. This is the 158th volume in this Jossey-Bass series New Directions for Child and Adolescent Development. Its mission is to provide scientific and scholarly presentations on cutting edge issues and concepts in this subject area. Each volume focuses on a specific new direction or research topic and is edited by experts from that field.**

Teaching Primary Science Constructively

Cengage AU **Teaching Primary Science Constructively helps readers to create effective science learning experiences for primary students by using a constructivist approach to learning. This best-selling text explains the principles of constructivism and their implications for learning and teaching, and discusses core strategies for developing science understanding and science inquiry processes and skills. Chapters also provide research-based ideas for implementing a constructivist approach within a number of content strands. Throughout there are strong links to the key ideas, themes and terminology of the revised Australian Curriculum: Science. This sixth edition includes a new introductory chapter addressing readers' preconceptions and concerns about teaching primary science.**

Teaching in Nursing E-Book

A Guide for Faculty

Elsevier Health Sciences **The perfect all-in-one guide for future nurse educators! The award-winning Teaching in Nursing: A Guide for Faculty, 6th Edition prepares you for the day-to-day challenges of teaching future nurses for practice in today's rapidly evolving healthcare system. This comprehensive resource is the only one of its kind to cover all four components of nursing education: teaching and learning, curriculum, evaluation, and technology-empowered learning. You'll benefit from the expert guidance on such key issues as curriculum and test development, diverse learning styles, the redesign of healthcare systems, and advances in technology and information. Plus, the 6th edition includes a unique new chapter on Global Health and Curricular Experiences along with updated information on technology-empowered learning, the flipped classroom, interprofessional education, interprofessional collaborative practice, and much more. Comprehensively addresses all four components of nursing education including teaching and learning, curriculum, evaluation, and technology-empowered learning. Coverage of concept-based curricula includes strategies on how to approach and implement concept-based instruction. Pedagogical aids include Evidence-Based Teaching boxes, covering such issues as how to do evidence-based teaching; applications of evidence-based teaching; implications for faculty development, administration, and the institution; and how to use the open-ended application questions at the end of each chapter for faculty-guided discussion. Strategies to promote critical thinking and active learning are incorporated throughout the text, highlighting various evaluation techniques, lesson planning insights, and tips for developing examinations. Guidance on teaching in diverse settings addresses such topics as the models of clinical teaching, teaching in interdisciplinary settings, how to evaluate students in the clinical setting, and how to adapt teaching for community-based practice. Strong emphasis on teaching clinical judgment, new models of clinical**

education, and responding to needs for creating inclusive multicultural teaching-learning environments. NEW! Updated content throughout reflects the latest evidence-based guidelines for best practices in teaching and learning. NEW! UNIQUE chapter on Global Health and Curricular Experiences focuses on internationalization of the nursing curriculum with an emphasis on leading international learning experiences; policies, procedures, and guidelines for overseas study and global and health competencies for health professions programs. NEW! Enhanced pedagogy includes additional illustrations, tables, and boxes. NEW! Expanded interprofessional education chapter, provides you with strategies for effective teaching in an interprofessional healthcare environment.

Recent Advances in Information and Communication Technology 2019

Proceedings of the 15th International Conference on Computing and Information Technology (IC2IT 2019)

Springer **This book presents the latest research on computer recognition systems. Over the last few years, computer scientists, engineers and users have been confronted with rapid changes in computer interfaces and in the abilities of the machines and the services available. And this is just the beginning: based on recent research findings, we can expect more significant advances and challenges in the next decade. Achievements in the area of artificial intelligence have made an important major contribution to these developments: Machine learning, natural language processing, speech recognition, image and video processing are just some of the major research and engineering directions that have made autonomous driving, language assistants, automatic translation and answering systems as well as other innovative applications such as more human-oriented interfaces possible. Those developments also reflect economic changes in the world, which are increasingly dominated by the needs of enhanced globalization, international cooperation (including its competitive aspects) and emerging global problems.**

OECD Reviews of Evaluation and Assessment in Education: Bulgaria

OECD Publishing **Over the past three decades, Bulgaria has carried out important structural reforms which have helped the country reach higher levels of socio-economic development. However, long-standing social disparities and income inequalities remain and Bulgaria's overall productivity gains have not fully translated into sustainable and inclusive growth.**

American Defense Policy

JHU Press **"Organized into three parts, the ninth edition traces the impact that societal changes and emerging technologies are having as force enablers, game changers, or disrupters of American defense policy"--**

The Trials of Evidence-based Education

The Promises, Opportunities and Problems of Trials in Education

Routledge **The Trials of Evidence-based Education explores the promise, limitations and achievements of evidence-based policy and practice, as the attention of funders moves from a sole focus on attainment outcomes to political concern about character-building and wider educational impacts. Providing a detailed look at the pros, cons and areas for improvement in evidence-based policy and practice, this book includes consideration of the following: What is involved in a robust evaluation for education. The issues in conducting trials and how to assess the trustworthiness of research findings. New methods for the design, conduct, analysis and use of evidence from trials and examining their implications. What policy-makers, head teachers and practitioners can learn from the evidence to inform practice. In this well-structured and thoughtful text, the results and implications of over 20 studies conducted by the authors are combined with a much larger number of studies from their systematic reviews, and the implications are spelled out for the research community, policy-makers, schools wanting to run their own evaluations, and for practitioners using evidence.**

Rankings and the Reshaping of Higher Education

The Battle for World-Class Excellence

Springer **University rankings have gained popularity around the world and are now a significant factor shaping reputation. This second edition updates Ellen Hazelkorn's first comprehensive study of rankings from a global perspective, drawing in new original research and extensive analysis. It is essential reading for policymakers, managers and scholars.**

Land Law and the Extractive Industries

Challenges and Opportunities in Africa

Bloomsbury Publishing **This book analyses the nexus between land access and the extractive industries in Africa, specifically highlighting the gaps in energy, land and mining laws and the practical solutions needed to settle the increasing number of land disputes in resource-rich areas. Access to land is essential for the successful operation of energy and mining projects. However, there are often social, environmental and economic issues associated with acquiring land for these projects. Socially, many people are relocated; economically, local communities are not given adequate compensation; environmentally, pollution negatively impacts on the agricultural and fishing industries relied on by over 80% of the local communities. Against this stark background, and drawing from the author's fieldwork research, this book addresses the important question of whether the different land tenure systems, coupled with administration and registration procedures, are adequate to address the increasing land disputes in oil and mineral-rich African countries.**

Computational Thinking in Education

A Pedagogical Perspective

Routledge **Computational Thinking in Education explores the relevance of computational thinking in primary and secondary education. As today's school-aged students prepare to live and work in a thoroughly digitized world, computer science is providing a wealth of new learning concepts and opportunities across domains. This book offers a comprehensive overview of computational thinking, its history, implications for equity and inclusion, analyses of competencies in practice, and integration into learning, instruction, and assessment through scaffolded teacher education. Computer science education faculty and pre- and in-service educators will find a fresh pedagogical approach to computational thinking in primary and secondary classrooms.**

Policy-Making in the GCC

State, Citizens and Institutions

Bloomsbury Publishing **The GCC is a major player in the post-2011 reordering of the Middle East. Despite the rise in prominence of individual Gulf states - especially Kuwait, Qatar, Saudi Arabia and the United Arab Emirates - and the growth of the GCC as a collective entity, surprisingly little attention has been paid to the actual mechanics of policy-making in the region. This book analyses the vital role that institutions are coming to play in shaping policy in the Gulf Arab states. The research coincides with two key developments that have given institutions new importance in the policy process: the emergence of a new generation of leaders in the Gulf, and the era of low oil prices. Both developments, along with dramatic demographic change, have compelled state and citizens to re-evaluate the nature of the social contract that binds them together. Contributors assess the changing relationship between state and citizen and evaluate the role that formal and informal institutions play in mediating such change and informing policy.The book shows how academic, social and economic institutions are responding to the increasingly complex process of decision-making, where citizens demand better services and further empowerment, and states are obliged to seek wider counsel, although wanting to retain ultimate authority. With contributions from both academics and practitioners, this book will be highly relevant for researchers and policymakers alike.**

Handbook of Quantitative Methods for Detecting Cheating on Tests

Taylor & Francis **The rising reliance on testing in American education and for licensure and certification has been accompanied by an escalation in cheating on tests at all levels. Edited by two of the foremost experts on the subject, the Handbook of Quantitative Methods for Detecting Cheating on Tests offers a comprehensive compendium of increasingly sophisticated data forensics used to investigate whether or not cheating has occurred. Written for practitioners, testing professionals, and scholars in testing, measurement, and assessment, this volume builds on the claim that statistical evidence often requires less of an inferential leap to conclude that cheating has taken place than**

do other, more common sources of evidence. This handbook is organized into sections that roughly correspond to the kinds of threats to fair testing represented by different forms of cheating. In Section I, the editors outline the fundamentals and significance of cheating, and they introduce the common datasets to which chapter authors' cheating detection methods were applied. Contributors describe, in Section II, methods for identifying cheating in terms of improbable similarity in test responses, preknowledge and compromised test content, and test tampering. Chapters in Section III concentrate on policy and practical implications of using quantitative detection methods. Synthesis across methodological chapters as well as an overall summary, conclusions, and next steps for the field are the key aspects of the final section.

Handbook of Automated Scoring

Theory into Practice

CRC Press "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.

Handbook of Research on STEM Education

Routledge The Handbook of Research on STEM Education represents a groundbreaking and comprehensive synthesis of research and presentation of policy within the realm of science, technology, engineering, and mathematics (STEM) education. What distinguishes this Handbook from others is the nature of integration of the disciplines that is the founding premise for the work – all chapters in this book speak directly to the integration of STEM, rather than discussion of research within the individual content areas. The Handbook of Research on STEM Education explores the most pressing areas of STEM within an international context. Divided into six sections, the authors cover topics including: the nature of STEM, STEM learning, STEM pedagogy, curriculum and assessment, critical issues in STEM, STEM teacher education, and STEM policy and reform. The Handbook utilizes the lens of equity and access by focusing on STEM literacy, early childhood STEM, learners with disabilities, informal STEM, socio-scientific issues, race-related factors, gender equity, cultural-relevancy, and parental involvement. Additionally, discussion of STEM education policy in a variety of countries is included, as well as a focus on engaging business/industry and teachers in advocacy for STEM education. The Handbook's 37 chapters provide a deep and meaningful landscape of the implementation of STEM over the past two decades. As such, the findings that are presented within provide the reader with clear directions for future research into effective practice and supports for integrated STEM, which are grounded in the literature to date.

CURRICULUM REFORM IN PAKISTAN

The Need for Integration and Appreciation of Diversity

Gatekeeper Press I have written this book in an effort to explore how the history of Pakistan has resulted in the critical problems weighing down its education system. The book examines the questions: Why and how has a small elite class come to rule Pakistan? And how has their rule worsened the country's problems? The focus will be to critically examine the elements of the Pakistani national curriculum and madrasas and their effects on Pakistani society. The book represents the fusion of my experiences in Pakistan with extensive literature analysis, interviews, and textbook analysis. This research began when I came to the United States in January 2015 through the SAR program. I wanted to know the answers to profoundly unsettling questions. How can a society be so intolerant that a scholar educated solely in Pakistan is disregarded and assassinated while many Western-educated scholars with traditional insular thoughts are not only appreciated but flourishing? I wanted to know why Pakistani elites have so much power and freedom while lower classes are profoundly oppressed. Elites who barely pay taxes have been in power for generations while those that pay taxes suffer from sky-high inflation. The influential religious leaders mostly belong to the elite class while their followers are mostly lower class. Ruling families and social classes mostly control appointed positions. Do those in power not have a responsibility to speak on issues of social justice rather than limiting themselves in claiming that theirs is the only true form of Islam? Why don't they work to end the disparity of quality education between classes in Pakistan? Instead, many elites run their own lucrative elite Islamic schools. More importantly, why do the ulama (which literally means "those who possess knowledge [ilm], particularly of Islam") maintain a tight hierarchical system in the madrasa (Islamic seminary) community that rarely allows poor intelligent students to attain leadership positions? Why

are the ulama silent in the face of ruthless murder of and discrimination against Pakistani minorities? Book Review: "Pakistan Educational Reforms is a major study of education in Pakistan and its national and madrasa curriculum that fosters national and religious sectarian divisions, intolerance and conflicts. Dr. Amna Afreen documents the political, socio-economic and religious causes-limited government funding, widespread poverty and illiteracy and the poor training and performance of teachers- that have produced a failed educational system at urban and rural government and religious schools (madrasa) and offers a series of potential solutions and reforms." -- John L. Esposito, University Professor and Founding Director of The Alwaleed Center for Muslim-Christian Understanding, Georgetown University.

Routledge Handbook of Nuclear Proliferation and Policy

Routledge **This new Handbook is a comprehensive examination of the rich and complex issues of nuclear proliferation in the early 21st century. The future of the decades-long effort to prevent the further spread of weapons of mass destruction is at a crossroads today. If international nonproliferation efforts are to be successful, an integrated, multi-tiered response will almost certainly be necessary. A serious, thorough, and clear-eyed examination of the range of threats, challenges, and opportunities facing the international community is a necessary first step. This Handbook, which presents the most up-to-date analysis and policy recommendations on these critical issues by recognized, leading scholars in the field, intends to provide such an examination. The volume is divided into three major parts: Part I presents detailed threat assessments of proliferation risks across the globe, including specific regions and countries. Part II explains the various tools developed by the international community to address these proliferation threats. Part III addresses the proliferation risks and political challenges arising from nuclear energy production, including potential proliferation by aspiring states and nonstate groups. This Handbook will be of great interest to students and practitioners of nuclear proliferation, arms control, global governance, diplomacy, and global security and IR general.**

Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **The delivery of quality education to students relies heavily on the actions of an institution's administrative staff. Effective leadership strategies allow for the continued progress of modern educational initiatives. Educational Leadership and Administration: Concepts, Methodologies, Tools, and Applications provides comprehensive research perspectives on the multi-faceted issues of leadership and administration considerations within the education sector. Emphasizing theoretical frameworks, emerging strategic initiatives, and future outlooks, this publication is an ideal reference source for educators, professionals, school administrators, researchers, and practitioners in the field of education.**

Human Development Report 2014

Sustaining Human Progress: Reducing Vulnerabilities and Building Resilience

United Nations Publications **Most poeple in most countries have been steadily better in human development. Advances in technology and incomes hold ever-greater for longer, healthier, more secure lives.**

Makeology

Makerspaces as Learning Environments (Volume 1)

Routledge **Makeology introduces the emerging landscape of the Maker Movement and its connection to interest-driven learning. While the movement is fueled in part by new tools, technologies, and online communities available to today's makers, its simultaneous emphasis on engaging the world through design and sharing with others harkens back to early educational predecessors including Froebel, Dewey, Montessori, and Papert. Makerspaces as Learning Environments (Volume 1) focuses on making in a variety of educational ecosystems, spanning nursery schools, K-12 environments, higher education, museums, and after-school spaces. Each chapter closes with a set of practical takeaways for educators, researchers, and parents.**

Social Studies Education in East Asian Contexts

Routledge **The book explores the state of social studies education within selected East Asian societies and provides some insights into distinctive classroom practices. In an increasingly volatile and unpredictable world, the education of young people who both understand the contexts in which they are growing up and see the need for engaging with**

them is a top priority. This task falls to social studies education which carries the responsibility for inducting young people into their social world and helping them to see the role they can play within it. This is particularly important in East Asia where strong economic growth, long held cultural values and diverse political systems create an environment that challenges young people on multiple fronts. This book, with its team of regional authors, shows how different societies in the region are dealing with these challenges and what can be expected from future citizens. The book will appeal to policy makers, researchers and teachers interested in the current state of social studies education in East Asian societies.

Early Language Learning in Context

A Critical Socioeducational Perspective

Channel View Publications **This book critically analyses early school foreign language teaching policy and practice, foregrounding the influence of the socioeducational and cultural context on how policies are implemented and assessing the factors which either promote or constrain their effectiveness. It focuses on four Asian contexts – Malaysia, South Korea, Sri Lanka and Thailand – while providing a discussion of policy and practice in Canada and Finland as a comparison. Concentrating on the state school sector, it criticises the worldwide trend for a focus on English as the principal or only foreign language taught in primary schools, founded on a rationale that widespread proficiency in English is important for future national success in a globalised economy. It maintains that the economic rationale is not only largely unfounded and irrelevant to the language learning experiences of young children but also that the focus on English exacerbates system inequalities rather than contributing to their reduction. The book argues for a broader perspective on language learning in primary schools, one that values multilingualism and knowledge of regional and indigenous languages alongside a more diverse range of foreign languages. This book will appeal to educational policymakers, researchers and students interested in early foreign language learning in state educational systems worldwide.**

Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications

Concepts, Methodologies, Tools, and Applications

IGI Global **As teaching strategies continue to change and evolve, and technology use in classrooms continues to increase, it is imperative that their impact on student learning is monitored and assessed. New practices are being developed to enhance students' participation, especially in their own assessment, be it through peer-review, reflective assessment, the introduction of new technologies, or other novel solutions. Educators must remain up-to-date on the latest methods of evaluation and performance measurement techniques to ensure that their students excel. Learning and Performance Assessment: Concepts, Methodologies, Tools, and Applications is a vital reference source that examines emerging perspectives on the theoretical and practical aspects of learning and performance-based assessment techniques and applications within educational settings. Highlighting a range of topics such as learning outcomes, assessment design, and peer assessment, this multi-volume book is ideally designed for educators, administrative officials, principals, deans, instructional designers, school boards, academicians, researchers, and education students seeking coverage on an educator's role in evaluation design and analyses of evaluation methods and outcomes.**