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School Science Practical Work in Africa Experiences and Challenges Routledge

In early April 1911 Albert Einstein arrived in Prague to become full professor of theoretical physics at the German part of Charles University. It was there, for the first time, that he concentrated primarily on the problem of gravitation. Before he left Prague in July 1912 he had submitted the paper "Relativität und Gravitation: Erwiderung auf eine Bemerkung von M. Abraham" in which he remarkably anticipated what a future theory of gravity should look like. At the occasion of the Einstein-in-Prague centenary an international meeting was organized under a title inspired by Einstein's last paper from the Prague period: "Relativity and Gravitation, 100 Years after Einstein in Prague". The main topics of the conference included: classical relativity, numerical relativity, relativistic astrophysics and cosmology, quantum gravity, experimental aspects of gravitation and conceptual and historical issues. The conference attracted over 200 scientists from 31 countries, among them a number of leading experts in the field of general relativity and its applications. This volume includes abstracts of the plenary talks and full texts of contributed talks and articles based on the posters presented at the conference. These describe primarily original results of the authors. Full texts of the plenary talks are included in the volume "General Relativity, Cosmology and Astrophysics--Perspectives 100 Years after Einstein in Prague", eds. J. Biřák and T. Ledvinka, published also by Springer Verlag.

School Science Practical Work in Africa presents the scope of research and practice of science practical work in African schools. It brings together prominent science educators and researchers from Africa to share their experience and findings on pedagogical innovations and research-informed practices on school science practical work. The book highlights trends and patterns in the enactment and role of practical work across African countries. Practical work is regarded as intrinsic to science teaching and learning and the form of practical work that is strongly advocated is inquiry-based learning, which signals a definite paradigm shift from the traditional teacher-dominated to a learner-centered approach. The book provides empirical research on approaches to practical work, contextual factors in the enactment of practical work, and professional development in teaching practical work. This book will be of great interest to academics, researchers and post-graduate students in the fields of science education and educational policy.

Unsurpassed in the scope of its coverage, this book explores like no other the roles of policy entrepreneurs and the causes of policy change across diverse political systems ranging from the developing world to the largest western democracies. The studies show how entrepreneurs work with outside donors, take advantage of windows of political opportunity, create those windows, and push the policy process in the direction they hope. They also show the limits to these strategies, and strategies that tend to fail. The book dramatically advances our understanding not only of change and stability in water policy, but of the policy process more generally. Frank R. Baumgartner, University of North Carolina, US This book is a theoretically and empirically grounded analysis of one of the world's most pressing problems: the management of water resources. The editors have assembled a remarkable collection of authors with a truly global outlook and an excellent grasp of contemporary water issues as well as modern theories of public policy and decision-making. The volume also demonstrates excellent applications of policy theory to current and pressing matters. It is a must-read for students and practitioners in water resources and will be influential to water policy and in environmental resource management and policy for years to come. Thomas A. Birkland, North Carolina State University, US This volume is a major achievement. It advances our knowledge of stability and change in water policy through case studies from around the world. Its focus on transitions instances of really major shifts in policy is particularly welcome at a time when challenges such as climate change force water policy makers to reconsider the very foundations of their regulatory frameworks and infrastructural policies. The volume goes beyond water policy, however. It makes a major contribution to the study of policy dynamics in general by offering an empirically grounded comparative analysis of policy entrepreneurs as change agents in policy networks. There has been much loose talk about policy entrepreneurs in the fields of public administration and public policy, but a dearth of empirical work underpinning the various claims made. This volume goes a long way towards filling that gap. Highly recommended for water experts and policy scientists alike. Paul t Hart, Australian National University, Australia and Utrecht University, the Netherlands This major volume focuses on the role of policy entrepreneurs in revolutionizing water management worldwide. Adopting an international comparative perspective, the authors explore the changes taking place in water policy across fifteen countries, at both the global level and within the European Union. Their analysis highlights the importance of groups and individuals in stimulating progress and reveals the crucial part played by policy entrepreneurs. Successful entrepreneurs use various strategies to initiate and implement change, including the framing and reframing of issues, the assembly of coalitions, venue shopping and the exploitation of windows of opportunity. In showcasing the role of entrepreneurs in achieving transitions and explaining their approach, this groundbreaking book presents an optimistic message for those who desire improvements in the way water is managed. This book will not only make a unique contribution to the current literature on transition management, but will also prove an invaluable tool for those keen to influence water policy management at the regional, national and international level. It will be of great interest to students and scholars of water resources and environmental management and governance, as well as practitioners in the fields of water and climate policy.

The role humans play in the field of information technology continues to hold relevance even with the industry's rapid growth. People contribute heavily to the physical, cognitive, and organizational domain of computing, yet there is a lack of exploration into this phenomenon. Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data. The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology. While highlighting topics including digitalization, risk management, and task analysis, this book is ideally designed for IT professionals, managers, support executives, project managers, managing directors, academicians, researchers, and students seeking current research on the dynamics of human influence in technological projects.

A case of scientific misconduct that was widely discussed in public both in Germany and abroad has led the Executive Board of the Deutsche Forschungsgemeinschaft to appoint an international commission

to explore causes of dishonesty in science systems to discuss preventive measures to examine the existing mechanisms of professional self regulation in science and to make recommendations on how to safeguard them. As a result of its deliberations, the commission puts forward the recommendations covered in this book. The accompanying justification and commentary contain suggestions for their implementation. They are followed by a short overview of the problems in the scientific system discussed by the commission, and of institutional regulations in other countries which were helpful for drawing up these recommendations.

The volume of proceedings of the Xth International Seminar on High Energy Physics, Relativistic Nuclear Physics and Quantum Chromodynamics brings together reports from the major experimental collaborations at JINR, Fermilab, Brookhaven, SATURNE, Orsay, GSI Darmstadt, Riken Cyclotron Lab. KEK, SLAC, Novosibirsk, MIT Bates, IHEP USSR and summaries of the major theoretical and experimental advances made in relativistic and nuclear physics over the last two years. The focus of the volume is upon relativistic nuclear physics, but the coverage of topics is sufficiently comprehensive to include many important results of cumulative reactions, polarization phenomena in nuclear physics, non nucleon degrees of freedom in nuclei.

Die Deutsche Bodenmechanik Tagung etabliert sich nach ihrer gelungenen Auftaktveranstaltung vor zwei Jahren zum Forum für fachlichen Austausch und zur Diskussion aktueller Fragestellungen. Der vorliegende zweite Tagungsband behandelt diese aktuellen Themen: „Stoffgesetze und Materialverhalten“, „Boden als Mehrphasensystem“ und „Anwendungsbezogene Herausforderungen in der Bodenmechanik“. Die Tagung wurde vom Lehrstuhl für Grundbau, Boden- und Felsmechanik der Ruhr-Universität Bochum in Kooperation mit dem Lehrstuhl Baugrund-Grundbau der TU Dortmund veranstaltet. Sie fand unter der Schirmherrschaft der Deutschen Gesellschaft für Geotechnik (DGGT) an der Ruhr- Universität in Bochum statt.

This book collects 63 revised, full-papers contributed to a research project on the "General Theory of Information Transfer and Combinatorics" that was hosted from 2001-2004 at the Center for Interdisciplinary Research (ZIF) of Bielefeld University and several incorporated meetings. Topics covered include probabilistic models, cryptology, pseudo random sequences, quantum models, pattern discovery, language evolution, and network coding.

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