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Much attention in late-developing countries is given to providing access to studies which allow school leavers to enter science and technology-related careers. This book reviews research related to the crucial dimension of epistemological access to the disciplines of import, which students need as much as institutional access in order to improve their chances of success. A significant feature of this collection's research studies is that their empirical bases are highly localised, covering areas such as research methods, access, curriculum, instruction and assessment, and the relevance of science and mathematics education in Zimbabwe, Uganda, Swaziland, South Africa, Namibia, Malawi, Ghana and Lesotho. It is the outcome of a doctoral research capacity-development project, the Graduate Studies in Science, Mathematics and Technology Education (GRASSMATE).

Provides: over 26,000 academic institutions, 150,000 staff and officials; extensive coverage of universities, colleges and other centres of learning; and detailed information on over 400 international cultural, scientific and educational organizations.

An ideal reference guide to introducing the IB Diploma in your school.

This volume compares and contrasts contemporary theories of cognition, modes of perception, and learning from cross-cultural perspectives. The participants were asked to consider and assess the question of whether people from different cultures think differently. Moreover, they were asked to consider whether the same approaches to teaching and development of thinking will work in all cultures as well as they do in Western, literate societies.

The Routledge Handbook of Social Work Ethics and Values is a comprehensive exploration

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and assessment of current and future issues facing social work practice and education. It is the first book to codify ethical practices for social workers from across the globe and in myriad workplace settings. Each section meaningfully captures this complex subject area: ethics writ large visions of diverse values abortion relationship and gender issues micro and mezzo practice settings social work education technological issues spirituality globalism economic issues special topics Leaving no stone unturned, this handbook comprehensively addresses the most controversial topics in an evenhanded manner. Among professional social workers, values and ethics traverse political boundaries, cultural identifications, and languages. This handbook will help to make sense of this unity within diversity. With contributions from the world's leading scholars, this book will be a valuable resource for all social work students, academics, researchers, and practitioners who seek a coherent and objective analysis in the abstract arena of ethics and values.

Hark, Hark! Hear the Story of a Science Educator highlights some compelling ideas on science teaching and learning through the author's journey and includes evolution and revolution in the growth of scientific knowledge. The book discusses views of McComas et al. and Lederman et al. on the nature of science, as well as the learning theories of Piaget (1926), Vygotsky (1978), and Marton (1981). The three theories of learning frame methods in teaching science. The author is well known in the science education research community for her groundbreaking work in student conceptions and conceptual change, particularly as related to phenomenography. Key Features: Helps science educators explore new avenues related to various innovative curricula, teaching, and learning Presents abstract learning theories, such as social constructivism in personal stories and experiences Bridges the divide between the

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science education community and the general public on significant ideas of science teaching and learning Uncovers relational conceptual change inquiry learning Discusses current socioscientific community-based issues—other-centeredness—through scientific investigation and engineering design challenges

Education policy must redress the injustices of the past, yet prepare students for an increasingly competitive world, where new technologies have disrupted conventional conceptions of education and training. Equality must go hand in hand with growth, cultural diversity with nationhood, and education with training. Vision and Reality critically reflects on current policy in education and training, such as Curriculum 2005, as well as the practices of teaching and learning, the integration of education with training, the transformation of teacher education, and the accommodation of cultural diversity in a unified country.

Knowledge remains timely in education. The need for academics to contemplate its relevance, worth, use and everything in-between deems a continuous intellectual project, rather than a conundrum to be solved. This book takes the South African context by the horns as it challenges the often dormant and traditionalist ways in which higher education spaces see knowledge. Through original research and the voices of academics and students, this book argues for repurposing knowledge generation, knowledge sharing and critical pedagogy so

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that more inclusive teaching and learning environments can be both imagined and sustained. The contentious tensionalities that this creates for LoLT and SoTL, in particular, are unlocked so as to trouble the South African higher education landscape with the intent to proffer alternative pathways for a knowledge beyond colour lines. Prof Shan Simmonds (PhD) NWU This edited volume bristles with fresh scholarly approaches and insights of an emergent generation of engaged scholars grappling with the issues and problems of higher education in South Africa. The issues dealt with here are varied and encompassing. They are treated with intellectual delicacy and probing sensitivity, articulacy, informed data and bold conclusions. They serve well! Prof. Kwesi Kwaa Prah, Emeritus Professor of Sociology, University of the Western Cape Founder of the Centre for Advanced Studies of African Society

Solar energy possesses enormous potential as a source of affordable and inexhaustible energy. Solar energy is utilized with the help of various technologies and, in particular, photovoltaic technology, based on photovoltaic elements which provide direct conversion of solar energy into electricity. The compilation “Research and Development of Solar Cells” covers papers concerning various aspects of the design, research and manufacture of photovoltaic cells, as they have been selected from the library of Trans Tech

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Publications Inc. from 2010 to 2014 inclusive. All materials are presented in five chapters: Chapter 1: Silicon Based Solar Cells Chapter 2: Dye-Sensitized Cells Chapter 3: Other Types of Solar Cells Chapter 4: Technology of Quantum Dots Chapter 5: Engineering Support in Manufacturing of Solar Cells, which display a wide variety of challenges and achievements in the field of photovoltaic cells engineering.

This new edition features numerous updates and additions. Especially 4 new chapters on Fiber Optics, Integrated Optics, Frequency Combs and Interferometry reflect the changes since the first edition. In addition, major complete updates for the chapters: Optical Materials and Their Properties, Optical Detectors, Nanooptics, and Optics far Beyond the Diffraction Limit. Features Contains over 1000 two-color illustrations. Includes over 120 comprehensive tables with properties of optical materials and light sources. Emphasizes physical concepts over extensive mathematical derivations. Chapters with summaries, detailed index Delivers a wealth of up-to-date references.

The second volume of the African Higher Education Dynamics Series brings together the research of an international network of higher education scholars with interest in higher education and student politics in Africa. Most authors are

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early career academics who teach and conduct research in universities across the continent, and who came together for a research project and related workshops and a symposium on student representation in African higher education governance. The book includes theoretical chapters on student organising, student activism and representation; chapters on historical and current developments in student politics in Anglophone and Francophone Africa; and in-depth case studies on student representation and activism in a cross-section of universities and countries. The book provides a unique resource for academics, university leaders and student affairs professionals as well as student leaders and policy-makers in Africa and elsewhere.

This authoritative register brings together a wealth of detailed historical and technical information about all the major combat ships in the U.S. Navy--from the sail frigates of the Revolution to today's nuclear-powered aircraft carriers and submarines. Conceived and developed by Bauer before his death and extended and updated by Roberts, this reference guide is designed for the general student of American naval history. Entries begin with a listing of key technical specifications; offer data about ship building, construction dates, and final disposition; and conclude with notes about reconstructions, renamings, and reclassifications.

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This guide is for anyone who has ever thought of screenwriting. Written by someone who has "been there, done that," and lived to tell the tale, it reveals the most popular genres, explains how stories need to be structured for feature films and TV movies, offers the freshest look at workshops and online classes, and disusses how to set up a step-by-step path to success.

Asking Google for different applications of electrolysis, interesting results can be noticed: electrolysis and hair removal - about 284 000 000 web pages, water electrolysis - about 7 440 000 web pages and industrial electrolysis - about 2 540 000 results. In this book three most important applications of technological electrolysis are discussed - water electrolysis (hydrogen production), industrial electrolysis and environmental electrolysis. Authors of the chapters are recognized specialists in their respective research fields and the presented material is not only from reviews and literature sources, but also original results. We hope that the reader will find useful information in the chapters of this book and are certain that the science can reveal unexpected discoveries even tomorrow, if current progress is at hand or on a shelf. Water is the thread that connects us all. The capable student of water management must have the ability to clearly and concisely ask the right questions, formulate an actionable research plan, expeditiously carry out the research, and disseminate findings so that they may be applied directly, adapted to suit particular needs and cases, and/or debated vigorously in the public domain. To this end, *Playing the Water Dance* serves

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as a timely and useful tool for the postgraduate student, mid-career academic, skilled practitioner, and seasoned consultant alike.

Partners in Literacy describes the process, research, relationships, and theories that guided a three-year partnership between the Purdue University Writing Lab and two community organizations in Lafayette, Indiana: the Lafayette Adult Resource Academy and WorkOne Express. This partnership resulted in a new section of the globally known Purdue Online Writing Lab (OWL) and the Community Writing and Education Station (CWEST), which featured adult literacy resources in the areas of GED preparation, English as a Second Language, and workplace and job search literacy. Using an empirical and iterative design process, the authors worked closely with their community partners to develop, test, revise, and launch these resources. In Partners in Literacy, the authors argue that writing centers can be effective spaces from which to work with the community and that writing centers' missions of sustainability, outreach, and research-driven practice can offer valuable philosophies for civic engagement. To support this argument, the book discusses the research methods and findings, the process behind developing and sustaining the three-year engagement project, and the personal relationships that ultimately held the project together.

Contains information on international organizations and individual chapters on academic institutions in countries from Afghanistan to Zimbabwe. A comprehensive index is included in both volumes.

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Since his late teens, Kinsella has been rubbing shoulders and working with a host of acclaimed poets. The book opens with Kinsella on a bender in search of Dorothy Hewett, and goes on to tell the story of his friendships and massive fallings-out through the highs and lows of addiction. In this contentious account, Kinsella weaves his impressions of these figures personally, with a lively and incisive commentary on their place within the broader literary culture. Here, in good company, are intimate portraits of Dorothy Hewett, Les Murray, American literary critic Harold Bloom and French philosopher Jacques Derrida, as they have never been seen before. As a highly respected poet and critic, Kinsella brings clarity and biting irreverence to the writer's life, making this encounter with literature vividly alive.

Nanoscale electrochemistry has revolutionized electrochemical research and technologies and has made broad impacts in other fields, including nanotechnology and nanoscience, biology, and materials chemistry. Nanoelectrochemistry examines well-established concepts and principles and provides an updated overview of the field and its applications. This book covers three integral aspects of nanoelectrochemistry. The first two chapters contain theoretical background, which is essential for everyone working in the field—specifically, theories of electron transfer, transport, and double-layer processes at nanoscale electrochemical interfaces. The next chapters are dedicated to the electrochemical studies of nanomaterials and nanosystems, as well as the development and applications of nanoelectrochemical techniques. Each chapter is

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self-contained and can be read independently to provide readers with a compact, up-to-date critical review of the subfield of interest. At the same time, the presented collection of chapters serves as a serious introduction to nanoelectrochemistry for graduate students or scientists who wish to enter this emerging field. The applications discussed range from studies of biological systems to nanoparticles and from electrocatalysis to molecular electronics, nanopores, and membranes. The book demonstrates how electrochemistry has contributed to the advancement of nanotechnology and nanoscience. It also explores how electrochemistry has transformed itself by leading to the discovery of new phenomena, enabling unprecedented electrochemical measurements and creating novel electrochemical systems.

This book begins with a very readable survey "The Sun Today" by J.-C. Pecker. It is followed by thorough reviews from leading experts covering theory and observations. The focus shifts from the solar core, studied via neutrino emissions and helioseismology, through the interface regions where it is believed the large-scale magnetic fields are generated, to the corona, where most of the high temperature phenomena characteristic of this region may be studied directly. As energetic particles play such a vigorous role in this part of the sun, a separate session was devoted to their transport and storage in the corona.

Vols. for 1967-70 include as a section: Who's who of Rhodesia, Mauritius, Central and East Africa.

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This book examines the influence of an important body of international literature on the development of post-apartheid policies in higher education and training and in science and technology. The book also examines a related phenomenon, the so-called 'massification' and democratisation of higher education world-wide over the past two decades.

These proceedings of the World Congress 2006, the fourteenth conference in this series, offer a strong scientific program covering a wide range of issues and challenges which are currently present in Medical physics and Biomedical Engineering. About 2,500 peer reviewed contributions are presented in a six volume book, comprising 25 tracks, joint conferences and symposia, and including invited contributions from well known researchers in this field.

'We can say without fear of being contradicted by history, that June 16, 1976 heralded the beginning of the end of the centuries-old white rule in this country.' Nelson Mandela Originally banned on publication by the apartheid government, Year of Fire, Year of Ash is an eye-opening account of how, in June 1976, 20,000 school students faced down the tanks and guns of a vicious racist regime, in a revolt that galvanized the black working-class and became a pivotal turning point for the anti-apartheid movement. More than this, the book overturns much of the conventional logic that served to explain the event at the time, showing it was not simply a student protest, but part of a wider uprising. Released in this new edition to mark the fortieth anniversary, Year of Fire,

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Year of Ash provides an unparalleled insight into the origins and events of the uprising, from its antecedents in the 1920s to its role in inspiring global solidarity against apartheid. As South Africa experiences a new wave of popular discontent, and as new forms of black consciousness come to the fore in movements around the world, Baruch Hirson's book provides a timely reminder of the Soweto revolt's continued significance to struggles against oppression today.

There is global evidence that 'ghosts' of notions of essentialist differences between human 'groups' continue to haunt in various forms. People draw upon ideas of religion, race, ethnicity, gender and sexuality, and nation to draw distinctions. Racism, xenophobia, sexism, and right-wing populism are ongoing and increasing phenomena. In addition, genetic science has introduced new forms of 'proof' which lends itself to misuse, to confirm 'common sense perceptions'. The valuable contributions of the authors in this publication not only warn against such notions, but offer ways of exploring, exposing and challenging the ghosts and the fears engendered through their contemporary forms.

Compound Semiconductors 1998 explores research and development in key semiconductor materials and III-V compounds such as gallium arsenide, indium phosphide, gallium nitride, silicon germanium, and silicon carbide. It critically

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assesses progress in key technologies such as reliability assessment and reports on advances in the use of semiconductors in modern electronic and optoelectronic devices. Coverage in this volume reflects the increased interest and research funding in nitride-based materials; wide band-gap devices; mobile communications, including III-V-based transistors and photonic devices; crystal growth and characterization; and nanoscale phenomena, such as quantum wires, dots, and other low dimensional structures.

This book constitutes the thoroughly refereed proceedings of the 7th International Conference on e-Infrastructure and e-Services for Developing Countries, AFRICOMM 2015, held in Cotonou, Benin, in December 2015. The 25 papers were carefully selected from 51 submissions and cover topics such as communication infrastructure, access to information, green IT applications and security, health.

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