

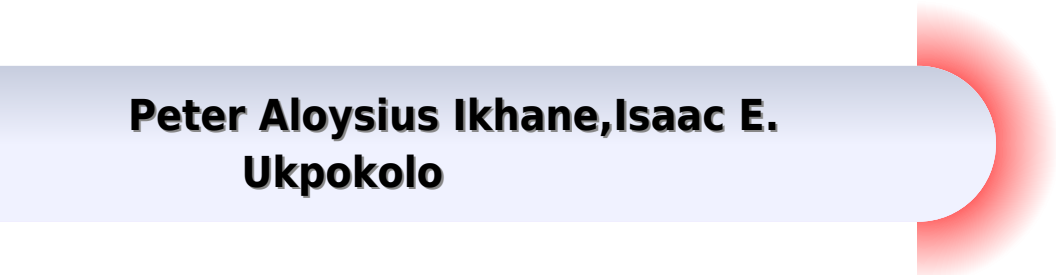
V. Ilyin, A. Kalinkin

**The
Nature
of Science**

PROGRESS Publishers

The Nature Of Science An Epistemological Analysis

**Peter Aloysius Ikhane, Isaac E.
Ukpokolo**



The Nature Of Science An Epistemological Analysis:

The Nature of Science Viktor Vasil'evich Il'in, Anatolii Terent'evich Kalinkin, 1988 Advances in Nature of Science Research Myint Swe Khine, 2011-09-18 This book consolidates contemporary thinking and research efforts in teaching and learning about the nature of science in science education The term Nature of Science NoS has appeared in the science education literature for many decades While there is still a controversy among science educators about what constitutes NoS educators are unanimous in acknowledging the importance of this topic as well as the need to make it explicit in teaching science The general consensus is that the nature of science is an intricate and multifaceted theme that requires continued scholarship Recent analysis of research trends in science education indicates that investigation of the nature of science continues to be one of the most prevalent topics in academic publications *Advances in Nature of Science Research* explores teaching and assessing the nature of science as a means of addressing and solving problems in conceptual change developing positive attitudes toward science promoting thinking habits advancing inquiry skills and preparing citizens literate in science and technology The book brings together prominent scholars in the field to share their cutting edge knowledge about the place of the nature of science in science teaching and learning contexts The chapters explore theoretical frameworks new directions and changing practices from intervention studies discourse analyses classroom based investigations anthropological observations and design based research **Companion to the History of Modern Science** G N Cantor, G.N. Cantor, J.R.R. Christie, M.J.S. Hodge, R.C. Olby, 2006-09-07 A descriptive and analytical guide to the development of Western science from AD 1500 and to the diversity and course of that development first in Europe and later across the world Presented in clear non technical language Extensive indexes of Subjects and Names Indeed a companion volume whose 67 essays give pleasure and instruction an ambitious and successful work *Times Literary Supplement* This work is an essential resource for libraries everywhere For specialist science libraries willing to keep just one encyclopaedic guide to history for undergraduate libraries seeking to provide easily accessible information for the devisers of university curricula for the modern social historian or even the eclectic scientist taking a break from simply making history this is the book for you *Times Higher Education Supplement* A pleasure to read with a carefully chosen typeface well organized pages and ample margins it is very easy to find one's way around This is a book which will be consulted widely *Technovation* This is a commendably easy book to use *British Journal of the History of Science* Scholars from other areas entering this field students taking the vertical approach and teachers coming from any direction cannot fail to find this an invaluable text *History of Science Journal* **Transforming Teacher Education Through the Epistemic Core of Chemistry** Sibel Erduran, Ebru Kaya, 2019-06-10 This book synthesizes theoretical perspectives empirical evidence and practical strategies for improving teacher education in chemistry Many chemistry lessons involve mindless cookbook activities where students and teachers follow recipes memorise formulae and recall facts without understanding how and why knowledge in chemistry works

Capitalising on traditionally disparate areas of research the book investigates how to make chemistry education more meaningful for both students and teachers It provides an example of how theory and practice in chemistry education can be bridged It reflects on the nature of knowledge in chemistry by referring to theoretical perspectives from philosophy of chemistry It draws on empirical evidence from research on teacher education and illustrates concrete strategies and resources that can be used by teacher educators The book describes the design and implementation of an innovative teacher education project to show the impact of an intervention on pre service teachers The book shows how by making use of visual representations and analogies the project makes some fairly abstract and complex ideas accessible to pre service teachers

Language, Knowledge, and Representation Jesus M. Larrazabal, Luis A. Pérez Miranda, 2013-11-09 Every two years since 1989 an international colloquium on cognitive science is held in Donostia San Sebastian attracting the most important researchers in that field This volume is a collection of the invited papers to the Sixth International Colloquium on Cognitive Science ICCS 99 written from a multidisciplinary cognitive perspective and addressing various essential topics such as self knowledge intention consciousness language use learning and discourse This collection reflects not only the various interdisciplinary origins and standpoints of the participating researchers but also the richness fruitfulness and exciting state of research in the field of cognitive science today A must read for anyone interested in philosophy linguistics psychology and computer science and in the perception of these topics from the perspective of cognitive science The Bloomsbury Companion to the Philosophy of Science Steven French, Juha Saatsi, 2014-07-31 The Bloomsbury Companion to the Philosophy of Science presents a practical and up to date research resource to the philosophy of science Addressing fundamental questions asked by areas that have continued to attract interest historically as well as recently emerging areas of research this volume provides a comprehensive and up to date overview of the philosophy of science Specially commissioned essays from an international team of experts reveal where important work continues to be done in the area and the exciting new directions the field is taking The Companion explores issues pertaining to the philosophy of specific sciences physics biology neuroscience economics chemistry and mathematics and general issues in the field such as explanation realism representation evidence reduction laws causation and confirmation Featuring a series of indispensable research tools including an A to Z of key terms and concepts a chronology a detailed list of resources and a fully annotated bibliography The Bloomsbury Companion to the Philosophy of Science the essential reference tool for anyone working in philosophy of science today **Teaching and Learning about Climate Change** Daniel P. Shepardson, Anita Roychoudhury, Andrew S. Hirsch, 2017-02-17 Responding to the issues and challenges of teaching and learning about climate change from a science education based perspective this book is designed to serve as an aid for educators as they strive to incorporate the topic into their classes The unique discussion of these issues is drawn from the perspectives of leading and international scholars in the field The book is structured around three themes theoretical philosophical and conceptual frameworks for climate change

education and research research on teaching and learning about global warming and climate change and approaches to professional development and classroom practice **African Epistemology** Peter Aloysius Ikhane, Isaac E.

Ukpokolo, 2023-05-31 This book investigates how knowledge is conceived and explored within the African context Epistemology or the theory of knowledge has historically been dominated by the Western approach to the discourse of knowledge This book however shines a much needed spotlight on knowledge systems originating within the African continent Bringing together key voices from across the field of African philosophy this book explores the nature of knowledge across the continent and how they are rooted in Africans ontological sense of being and self At a time when moves to decolonize curricula are gaining momentum this book shows how understanding the specific ways of knowing that form part of the every day life of the African will play an important part in rebalancing studies of philosophy globally Employing critical conceptual and rigorous analyses of the nature and essence of knowledge as understood by indigenous African societies the book ultimately asks what could pass as an African theory of knowledge This important guide to the connections between knowledge and being in African philosophical thought will be an important resource for researchers and students of philosophy and African studies Research and Innovation in Physics Education: Two Sides of the Same Coin Jenaro

Guisasola, Kristina Zuza, 2020-08-20 This book describes novel approaches designed to enhance the professional training of physics teachers and explores innovations in the teaching and learning of physics in the classroom and laboratory It features selected contributions from the International Research Group on Physics Teaching GIREP and Multimedia in Physics Teaching and Learning MPTL Conference held in Donostia San Sebastian Spain in July 2018 which brought together two communities researchers in physics education and physics teachers The book covers a broad range of topics highlighting important aspects of the relationship between research and innovation in the teaching of physics and presenting fresh insights to help improve learning processes and instruction Offering a contemporary vision of physics teaching and the learning process the book is of interest to all teachers and researchers committed to teaching and learning physics on the basis of good evidence **Second International Handbook of Science Education** Barry J. Fraser, Kenneth

Tobin, Campbell J. McRobbie, 2011-12-13 The International Handbook of Science Education is a two volume edition pertaining to the most significant issues in science education It is a follow up to the first Handbook published in 1998 which is seen as the most authoritative resource ever produced in science education The chapters in this edition are reviews of research in science education and retain the strong international flavor of the project It covers the diverse theories and methods that have been a foundation for science education and continue to characterize this field Each section contains a lead chapter that provides an overview and synthesis of the field and related chapters that provide a narrower focus on research and current thinking on the key issues in that field Leading researchers from around the world have participated as authors and consultants to produce a resource that is comprehensive detailed and up to date The chapters provide the most recent and

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