

MATHEMATICAL MODELLING: THE INTERACTION OF CULTURE AND PRACTICE

ABSTRACT. Using a sociocultural approach we analyse the results of a Mexican/British project which investigated the ways in which mathematics is used in the practice of school science and the role of spreadsheets as a mathematical modelling tool. After discussing the different school cultures experienced by two groups of pre-university 16–18 year old students we analyse how these different cultures influenced their practice of mathematics, as well as their work with mathematical spreadsheet modelling activities. There were clear differences between the two groups of students in their preference for external representations, in their understanding of the kind of answers they were expected to produce and in the way they conceived the role of mathematics in the practice of science. Although students' preferences for a particular representation were not significantly modified by the use of a spreadsheet as a modelling resource, at the end of the study the students recognised the value of using a more diverse set of representations. The results obtained suggest the possibility of enhancing students' capability to shift between a wider range of representations, including graphical, algebraic and numeric ones, using a modelling approach embedded in a computer environment such as a spreadsheet.

1. INTRODUCTION AND BACKGROUND

Mathematics provides one of the most powerful means of modelling and solving problems across a range of subjects in science and technology. Biology, chemistry and physics are all examples of subjects which make use of mathematical techniques to model situations and solve problems. Many of the mathematical techniques involve the use of methods which are considered valuable because of their generalisability. But it is this potential generalisability which is being questioned by the culture and cognition research community (for example Lave, 1988; Rogoff and Lave, 1984). Whereas there have been a number of studies which have investigated the ways in which mathematics is used in everyday practices (for example, Nunes et al., 1993) there has been very little work taking a similar perspective with respect to school practices such as science. Whatever the reasons, many students who study science cannot readily use mathematical methods within science subject areas.



Mathematical Modelling In Educations And Culture

Q-X Ye, W Blum, S K Houston, Q-Y Jiang

Mathematical Modelling In Educations And Culture:

Mathematical Modelling in Education Research and Practice Gloria Ann Stillman, Werner Blum, Maria Salett Biembengut, 2015-07-20 In this volume cultural social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications the peak research body in this field A distinctive feature of this volume is the high number of authors from South American countries These authors bring quite a different perspective to modelling than has been showcased in previous books in this series in particular from a cultural point of view As well as recent international research there is a strong emphasis on pedagogical issues including those associated with technology and assessment in the teaching and learning of modelling Applications at various levels of education are exemplified The contributions reflect common issues shared globally and represent emergent or on going challenges

Mathematical Modelling in Education and Culture Q-X Ye, W Blum, S K Houston, Q-Y Jiang, 2003-05-01 The mathematical modelling movement in mathematics education at school and university level has been influencing curricula for about 25 years Lecturers will find material to enhance their teaching and extracurricular activities and educators will find innovative ideas to inform their course design and focus their research while students will find interesting problems to explore Helps lecturers enhance their teaching and extracurricular activities Provides educators with innovative ideas to inform their course design and focus their research Students will find interesting problems to explore

Modelling and Applications in Mathematics Education Peter L. Galbraith, Hans-Wolfgang Henn, Mogens Niss, 2007-12-05 Among the themes that have been central to mathematics education during the last 30 years are those of mathematical modelling and applications of mathematics to extra mathematical fields More generally we refer to these as relations between mathematics and the extra mathematical world some times also called the real world or preferably according to Henry PoUak the rest of the world That applications and modelling have been important themes in mathematics education can be inferred from the wealth of literature on these topics including material generated from a multitude of national and international conferences In particular let us mention firstly the ICMEs the International Congresses on Mathematical Education with their regular working or topic groups and lectures on applications and modelling and secondly the series of ICTMAs the International Conferences on the Teaching of Mathematical Modelling and Applications which have been held biennially since 1983 Their Proceedings and Survey Lectures have addressed the state of the art at the relevant time and contain many examples studies conceptual contributions and resources involving relations between the real world and mathematics for all levels of the educational system In curricula and textbooks we find today many more references to real world phenomena and problems than say twenty years ago

Mathematical Modelling Education in East and West Frederick Koon Shing Leung, Gloria Ann Stillman, Gabriele Kaiser, Ka Lok Wong, 2021-04-26 This book documents ongoing research and theorizing in the sub field

of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in people s everyday lives as well as sophisticated new problems for society at large Mathematical tradition in China that emphasizes algorithm and computation has now seen a renaissance in mathematical modelling and applications where China has made significant progress with its economy science and technology In recent decades teaching and learning of mathematical modelling as well as contests in mathematical modelling have been flourishing at different levels of education in China Today teachers and researchers in China become keener to learn from their colleagues from Western countries and other parts of the world in research and teaching of mathematical modelling and applications The book provides a dialogue and communication between colleagues from across the globe with new impetus and resources for mathematical modelling education and its research in both West and East with new ideas on modelling teaching and practices inside and outside classrooms All authors of this book are members of the International Community of Teachers of Mathematical Modelling and Applications ICTMA the peak research body into researching the teaching assessing and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace The book is of interest to researchers mathematics educators teacher educators education administrators policy writers curriculum developers professional developers in service teachers and pre service teachers including those interested in mathematical literacy

Mathematical Modelling Education and Sense-making Gloria Ann Stillman,Gabriele Kaiser,Christine Erna Lampen,2020-05-14 This volume documents on going research and theorising in the sub field of mathematics education devoted to the teaching and learning of mathematical modelling and applications Mathematical modelling provides a way of conceiving and resolving problems in people s everyday lives as well as sophisticated new problems for society at large Mathematical modelling and real world applications are considered as having potential for cultivating sense making in classroom settings This book focuses on the educational perspective researching the complexities encountered in effective teaching and learning of real world modelling and applications for sense making is only beginning All authors of this volume are members of the International Community of Teachers of Mathematical Modelling ICTMA the peak research body into researching the teaching and learning of mathematical modelling at all levels of education from the early years to tertiary education as well as in the workplace

Researching Mathematical Modelling Education in Disruptive Times Hans-Stefan Siller,Vince Geiger,Gabriele Kaiser,2024-06-03 This edited volume documents research on mathematical modelling education before during and after the Covid 19 pandemic Mathematical modelling is essential for understanding natural and human generated phenomena and informs decision making about events such as the pandemic climate change and other disruptive events Communication to the public often by the media makes use of mathematical modelling to justify changes to public policy as seen during the COVID 19 crisis Consequently mathematical modelling has assumed an increasingly prominent role in curricula

internationally providing opportunities to understand how it is used in current circumstances and to plan for the needs of future societies This book focuses on research on mathematical modelling education and its implementation at school and tertiary level Contributions to the book and point to directions for further innovation in mathematical modelling education Authors of this volume are members of the International Community of Teachers of Mathematical Modelling the peak research body for the teaching and learning of mathematical modelling *Mathematical Modeling in Cultural Heritage* Gabriella Bretti,Cecilia Cavaterra,Margherita Solci,Michela Spagnuolo,2025-06-20 This book collects contributions presented at the INdAM Workshop Mathematical modeling and Analysis of degradation and restoration in Cultural Heritage MACH2023 held in Rome Italy in September 2023 The book is focused on mathematical modeling and simulation techniques with the aim of improving the current strategies of conservation and restoration in cultural heritage sharing different experiences and approaches The main topics are corrosion and sulphation of materials damage and fractures stress in thermomechanical systems contact and adhesion problems phase transitions and reaction diffusion models restoration techniques additive manufacturing with a particular focus on the effective improvements of the fruition of cultural heritage The final goal is to strengthen the bridge between the experts in different fields of cultural heritage and the mathematical community

International Horizons in Mathematics Modelling Education Toshikazu Ikeda,Akihiko Saeki,Vince Geiger,Gabriele Kaiser,2025-08-09 This edited volume provides an extensive overview of the recent strides in global modelling education It examines the interplay between modelling education and various dimensions of the educational landscape Firstly it delves deeply into the intersection of modelling education with interdisciplinary STEM education teacher education lesson study engineering problem solving and posing and creativity Moreover the book places a strong emphasis on the integration of modelling education with foundational mathematical concepts including algebra geometry functions and statistics demonstrating their integral role across elementary secondary and tertiary levels of mathematics education Furthermore the book delves into the specific issues and considerations that shape modelling education It addresses critical pedagogical aspects the integration of technology and cultural and contextual considerations In essence this book stands as a comprehensive guide that not only surveys the recent advances in global modelling education but also offers invaluable insights and practical guidance Mathematical Modelling Programs in Latin America Milton Rosa,Francisco

Cordero,Daniel Clark Orey,Pablo Carranza,2022-07-06 This book is about the unique sophisticated and rigorous study of mathematics in Latin America developed over centuries of cultural exchange between Europe North and South America More specifically the book explores the tradition of mathematical modelling introduced a century ago This modelling was adapted to assist members of distinct communities to draw information about their own realities through the elaboration of representations which generate mathematical knowledge that deals with creativity and invention The book provides empirical evidence that a category of mathematical modelling developed in Latin America assesses the horizontal and

reciprocal relations between mathematics school non school contexts and the real world These relations provide an epistemological and ontological change where mathematical knowledge of the others is recognized on a horizontal plane Further they oblige mathematics teachers and students to understand as a community of knowledge that builds their own mathematical categories of their environment governed by the reciprocal relationships between academic knowledge and functional knowledge The dimensions of the relationships make up a frame of reference that guides educational change in mathematics The book presents an inquiry based approach of three Latin American modelling programs ethnomodelling transversality of knowledge and reasoned decision making Each one with its respective theoretical and methodological foundations related to ethnomathematics and mathematical modelling socioepistemology and the attribution of meaning to learning Undoubtedly the three mathematical modelling programs independently provide educational gains each with its levels of specificity and loyal to its philosophical theoretical and methodological principles However the book places them together organized by axes to define a corpus of mathematical knowledge that envisions profound educational change through the development of different approaches of mathematical modelling The authors of the 18 chapters in this book who represent the diversity of Latin America are from eight countries Argentina Brazil Chile Colombia Costa Rica Cuba Ecuador Honduras and Mexico They were invited to share their ideas perspectives and discuss investigations that represent a rich sample of three Latin American perspectives on mathematical modelling

Lines of Inquiry in Mathematical Modelling Research in Education Gloria Ann Stillman, Jill P. Brown, 2019-05-16 This open access book is based on selected presentations from Topic Study Group 21 Mathematical Applications and Modelling in the Teaching and Learning of Mathematics at the 13th International Congress on Mathematical Education ICME 13 held in Hamburg Germany on July 24 31 2016 It contributes to the theory research and teaching practice concerning this key topic by taking into account the importance of relations between mathematics and the real world Further the book addresses the balancing act between developing students modelling skills on the one hand and using modelling to help them learn mathematics on the other which arises from the integration of modelling into classrooms The contributions prepared by authors from 9 countries reflect the spectrum of international debates on the topic and the examples presented span schooling from years 1 to 12 teacher education and teaching modelling at the tertiary level In addition the book highlights professional learning and development for in service teachers particularly in systems where the introduction of modelling into curricula means reassessing how mathematics is taught Given its scope the book will appeal to researchers and teacher educators in mathematics education as well as pre service teachers and school and university educators

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