

Modeling for Dynamic Mathematics

Toward Technology-Integrated Aesthetic Experiences in School Mathematics

Lingguo Bu and Markus Hohenwarter

Abstract Dynamic mathematics learning technologies support a model-centered approach to mathematics teaching and learning, which enhances students' and teachers' mathematical experience in the STEM disciplines toward mathematical understanding and aesthetic feelings. This chapter first reviews the theoretical foundation of model-centered learning and instruction and then elaborates a model-centered perspective on the teaching and learning of middle and high school mathematics, integrating emerging dynamic and interactive mathematical learning technologies (e.g., GeoGebra) and drawing illustrative cases from recent mathematics teacher development projects and classroom experiments. Specific mathematical topics are discussed to showcase the transformative nature of dynamic mathematics in supporting sense-making and enriching classroom discussions. Using mathematical modeling and didactical modeling as a primary theme, this chapter illustrates the generative power of emerging digital technologies in addressing new standards for mathematical practices. Modeling not only provides a pathway toward mathematical understanding and self-assessment, but also allows students to experience the aesthetic dimension of mathematical inquiry in the broad context of STEAM education.

Keywords Dynamic learning technology · Mathematical modeling · Didactical modeling · Mathematical practice · Mathematical understanding · Mathematical aesthetics

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Applied Mathematics, Modeling and Computer Simulation Chi-Hua Chen, Andrea Scapellato, Alessandro Barbiero, Dmitry G. Korzun, 2024-01-15 Applied mathematics modelling and computer simulation are central to many aspects of engineering and computer science and continue to be of intrinsic importance to the development of modern technologies This book presents the proceedings of AMMCS 2023 the 3rd International Conference on Applied Mathematics Modeling and Computer Simulation held on 12 and 13 August 2023 in Wuhan China The conference provided an ideal opportunity for scholars and researchers to communicate important recent developments in their areas of specialization to their colleagues and to scientists in related disciplines More than 250 submissions were received for the conference of which 133 were selected for presentation at the conference and inclusion here after a thorough peer review process These range from the theoretical and conceptual to strongly pragmatic papers addressing industrial best practice and cover topics such as mathematical modeling and application engineering applications and scientific computations and the simulation of intelligent systems The book explores practical experiences and enlightening ideas and will be of interest to researchers practitioners and to all those working in the fields of applied mathematics modeling and computer simulation

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Computational Mathematics and Modelling for Diabetes Abdesslam Boutayeb,Mohamed E.N. Lamlili,2025-06-29 This book is a theoretical and pragmatic tool that applies mathematical modelling in understanding and managing diabetes and related complications such as diabetes predisposition diabetes onset regular glycaemic monitoring glycated haemoglobin HbA1c diabetes homeostasis gestational diabetes and other associated diseases and conditions Chapters in the book provide mathematical models dealing with the dynamics of insulin glucose the evolution from pre diabetes to diabetes without and with complications gestational diabetes and the association between diabetes and benign prostatic hyperplasia It also applies new methods such as data mining machine learning and deep learning By offering pragmatic examples and comprehensive reviews on mathematical models used for diabetes this book is useful for advanced researchers academic teachers students scientists and high pharmaceutical industry executives willing to start modelling *Techniques in Mathematical Modelling* Gautami Devar,2025-02-20 *Techniques in Mathematical Modelling* is a comprehensive textbook designed to provide students researchers and practitioners with a solid foundation in the principles techniques and applications of mathematical modelling We cover a wide range of topics from fundamental concepts and analytical techniques to validation methods and emerging trends Each chapter includes practical examples case studies and exercises to reinforce learning and demonstrate real world applications Our book emphasizes the interdisciplinary nature of mathematical modelling with applications in physics biology economics engineering social sciences and more We encourage hands on learning through practical exercises simulations and projects allowing readers to apply theoretical concepts to real world scenarios Additionally we explore emerging trends and challenges in the field including advancements in computational techniques data analytics and interdisciplinary collaborations Written in clear and accessible language *Techniques in Mathematical Modelling* caters to readers with varying levels of mathematical background making it suitable for undergraduate and graduate students as well as professionals

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