

# Trends in Teaching and Learning of Mathematical Modelling: ICTMA14 (International Perspectives on the Teaching and Learning of Mathematical Modelling)



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This book contains suggestions for and reflections on the teaching, learning and assessing of mathematical modelling and applications in a rapidly changing world, including teaching and learning environments. It addresses all levels of education from universities and technical colleges to secondary and primary schools. Sponsored by the International Community of Teachers of Mathematical Modelling and Applications (ICTMA), it reflects recent ideas and methods contributed by specialists from 30 countries in Africa, the Americas, Asia, Australia and Europe. Inspired by contributions to the Fourteenth Conference on the Teaching of Mathematical Modelling and Applications (ICTMA14) in Hamburg, 2009, the book describes the latest trends in the teaching and learning of mathematical modelling at school and university including teacher education. The broad and versatile range of topics will stress the international state-of-the-art on the following issues:

Theoretical reflections on the teaching and learning of modelling

Modelling competencies

Cognitive perspectives on modelling

Modelling examples for all educational levels

Practice of modelling in school and at university level

Practices in Engineering and Applications



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