

# CONTENTS

<i>Series foreword</i>	<i>vi</i>
<i>Acknowledgements</i>	<i>viii</i>
1 Introduction	1
2 Conceptual and theoretical framework – models and modelling: what and why?	6
3 Modelling examples	35
4 Modelling competency and modelling competencies	76
5 Challenges for the implementation of mathematical modelling	90
6 What we know from empirical research – selected findings on the teaching and learning of mathematical modelling	111
7 Cases of mathematical modelling from educational practices	145
8 Focal points for the future	189
<i>Index</i>	<i>195</i>