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Simulations as Scaffolds in Science Education

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Isabelle Girault, and Augusto Chiocarriello**

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The publisher regrets that the affiliation of the series editor M.J. Bishop on page i is incorrect in the print and online versions of this book. The correct information is given below.

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E1

The names of the authors' for each chapter below were omitted at the time of publication. Updated now are the correct order in which their names should appear.

Chapter 1

An Introduction to Simulations as Scaffolds in Science Education

Maggie Renken, Kathrin Otrell-Cass, Melanie Pepper, Isabelle Girault,
and Augusto Chiocciariello

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Chapter 2

Computer Simulations on a Multidimensional Continuum:
A Definition and Examples

Isabelle Girault, Melanie Pepper, Augusto Chiocciariello,
Maggie Renken, and Kathrin Otrell-Cass

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Chapter 3

Distinctions Between Computer Simulations and Other Technologies
for Science Education

Melanie Pepper, Maggie Renken, Isabelle Girault,
Augusto Chiocciariello, and Kathrin Otrell-Cass

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Chapter 4

Inquiry-Based Science Education and Problem-Based Learning:
Motivations, Objectives, and Challenges Relevant to Computer Simulations

Kathrin Otrell-Cass, Maggie Renken, Melanie Pepper,
Isabelle Girault, and Augusto Chiocciariello

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Chapter 5

Scaffolding Science Learning: Promoting Disciplinary Knowledge,
Science Process Skills, and Epistemic Processes

Maggie Renken, Kathrin Otreel-Cass, Augusto Chiocciariello,
Isabelle Girault, and Melanie Pfeffer

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Chapter 6

Considerations for Integrating Simulations in the Science Classroom

Kathrin Otreel-Cass, Isabelle Girault, Maggie Renken,
Augusto Chiocciariello, and Melanie Pfeffer

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