

# Contents

<b>Fundamentals of Magneto-Electro-Mechanical Couplings: Continuum Formulations and Invariant Requirements</b> . . . . .	1
Jörg Schröder	
<b>Ferroelectric and Ferromagnetic Phase Field Modeling</b> . . . . .	55
Dorinamaria Carka and Christopher S. Lynch	
<b>Semiconductor Effects in Ferroelectrics</b> . . . . .	97
Doru C. Lupascu, Irina Anusca, Morad Etier, Yanling Gao, Gerhard Lackner, Ahmadshah Nazrabi, Mehmet Sanlialp, Harshkumar Trivedi, Naveed Ul-Haq and Jörg Schröder	
<b>Electromechanical Models of Ferroelectric Materials</b> . . . . .	179
J. E. Huber	
<b>An FE<sup>2</sup>-Scheme for Magneto-Electro-Mechanically Coupled Boundary Value Problems</b> . . . . .	227
Matthias Labusch, Jörg Schröder and Marc-André Keip	
<b>Multiscale Modeling of Electroactive Polymer Composites</b> . . . . .	263
Marc-André Keip and Jörg Schröder	



<http://www.springer.com/978-3-319-68881-7>

Ferroic Functional Materials

Experiment, Modeling and Simulation

Schröder, J.; C. Lupascu, D. (Eds.)

2018, VII, 285 p. 99 illus., 49 illus. in color., Hardcover

ISBN: 978-3-319-68881-7