

CONTENTS

<i>List of Contributors</i>	<i>ix</i>
<i>List of Abbreviations</i>	<i>xi</i>
<i>Preface</i>	<i>xiii</i>
<i>Introduction</i>	<i>xv</i>
1. Controlling the Stability of Fluid Jet in the Electrospinning of Fibers: Mathematical Modeling	1
S. Poreskandar, Sh. Maghsoodlou, and A. K. Haghi	
2. Updates to Control Fluid Jet in Electrospinning Process Using Taguchi's Experimental Design.....	13
S. Poreskandar, Sh. Maghsoodlou, and A. K. Haghi	
3. Mechanical and Physical Properties of Electrospun Nanofibers: An Engineering Insight.....	33
S. Poreskandar, Sh. Maghsoodlou, and A. K. Haghi	
4. Numerical Modeling for Homogeneous and Stratified Flows: From Theory to Practice	71
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	
5. Non-Revenue Water: Some Practical Hints.....	97
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	
6. Three-Dimensional Heat Transfer and Water Flow Modeling	115
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	
7. Non-Linear Modeling for Non-Revenue Water.....	135
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	
8. Unaccounted-for Water of a Water System: Some Computational Aspects.....	159
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	
9. Water Distribution Network Analysis: From Theory to Practice	183
Kaveh Hariri Asli, Soltan Ali Ogli Aliyev, and Hossein Hariri Asli	

10. Application of Reneker's Mathematical Model to Optimize Electrospinning Process.....	205
Sh. Maghsoodlou and A. K. Haghi	
11. Mixed-Mode Delamination in Layered Isotropic and Laminated Composite Beam Structures.....	215
Christopher Martin Harvey, Paul Cunningham, and Simon Wang	
12. Crack Parameter Identification in Elastic Plate Structures Based on Remote Strain Fields and Solution of Inverse Problems	255
Ramdane Boukellif and Andreas Ricoeur	
13. Fracture Energy of Steel Fiber-Reinforced High-Strength Concrete Beams.....	261
Sriman Narayan, H. N., Muralidhara, S., and B. K. Raghu Prasad	
14. Structural Characterization and Mechanical Behavior of Carbon Nanotube-Reinforced Aluminum Matrix Composite—A Review	273
Shahrukh Shamim, Gaurav Sharma, C. Sasikumar, and Vikram Singh Raghuvanshi	
Index.....	291