

## Contents

<b>Survey of meshless and generalized finite element methods: A unified approach</b> .....	1
<i>Ivo Babuška, Uday Banerjee and John E. Osborn</i>	
<b>Continuous dependence and error estimation for viscosity methods</b> .....	127
<i>Bernardo Cockburn</i>	
<b>Computational high frequency wave propagation</b> .....	181
<i>Björn Engquist and Olof Runborg</i>	
<b>Model reduction methods based on Krylov subspaces</b> .....	267
<i>Roland W. Freund</i>	
<b>A mathematical view of automatic differentiation</b> .....	321
<i>Andreas Griewank</i>	
<b>Geometric numerical integration illustrated by the Störmer–Verlet method</b> .....	399
<i>Ernst Hairer, Christian Lubich and Gerhard Wanner</i>	
<b>Entropy stability theory for difference approximations of nonlinear conservation laws and related time-dependent problems</b> .....	451
<i>Eitan Tadmor</i>	