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T. **Andreescu**, University of Texas at Dallas, Richardson, TX, USA; D. **Andrica**, University Cluj-Napoca, Romania

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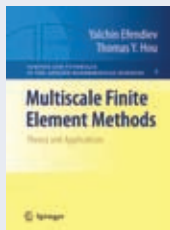
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A. **Andrianov**, Russian Academy of the Sciences, Petersburg Department of the Steklov Institute of Mathematics, St. Petersburg, Russia

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Y. **Efendiev**, Texas A & M University,

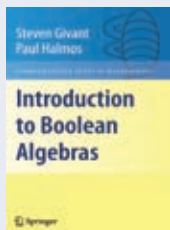
College Station, Texas, USA; T. **Y. Hou**, California Institute of Technology, Pasadena, CA, USA

This text on the main concepts and recent advances in multiscale finite element methods is written for a broad audience. Each chapter contains a simple introduction, a description of proposed methods, and numerical examples of those methods.

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