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Principles of Multiscale Modeling is really a guide, not a textbook. It is highly compressed and lacks exercises and weblinks to numerical codes. It also assumes a depth of cultural immersion in numerical analysis and physics beyond that of the average graduate student. Indeed, several chapters include the caveat that what is covered is not "an exhaustive treatment" but "we hope to convey the basic ideas."

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In multiscale modeling, he and collaborators have developed the heterogeneous multiscale methods (HMM). He has also made significant contributions to the mathematical understanding of the microscopic foundation to the macroscopic theories for solids.