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Book Reviews

Computational Methods for Electromagnetic Phenomena

Wei Cai

Cambridge University Press, 2013; \$130.00 (hardcover).

Cai's book provides a stunning example of the extent to which computational modelling of electromagnetic problems is important in various fields from electrostatics to transport in plasmas. It is worthwhile to note that Cai presents the foundational physics of the problems under study. Because of this, the book is an invaluable resource for anyone wanting a deep understanding of topics related to computational electromagnetics. I can think of no other place in the literature where the material is presented as well as it is here. Readers, particularly physicists, applied mathematicians and electrical engineers, will find this monograph to be an extremely helpful introduction into the numerical methods for electromagnetic phenomena.

Review by Christian Brosseau, OSA Fellow and professor of physics at the Université de Bretagne Occidentale in Brest, France.

