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By Alain Damlamian, Bernadette Miara, Tatsien Li

World Scientific Publishing Co Pte Ltd. Hardback. Condition: new. BRAND NEW, Multiscale Problems: Theory, Numerical Approximation and Applications, Alain Damlamian, Bernadette Miara, Tatsien Li, The focus of this is on the latest developments related to the analysis of problems in which several scales are presented. After a theoretical presentation of the theory of homogenization in the periodic case, the other contributions address a wide range of applications in the fields of elasticity (asymptotic behavior of nonlinear elastic thin structures, modeling of junction of a periodic family of rods with a plate) and fluid mechanics (stationary Navier - Stokes equations in porous media). Other applications concern the modeling of new composites (electromagnetic and piezoelectric materials) and imperfect transmission problems. A detailed approach of numerical finite element methods is also investigated.

Reviews

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