

<<多尺度问题>>

图书基本信息

书名：<<多尺度问题>>

13位ISBN编号：9787040317312

10位ISBN编号：7040317311

出版时间：2011-8

出版时间：高等教育出版社

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页数：305

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内容概要

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.

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