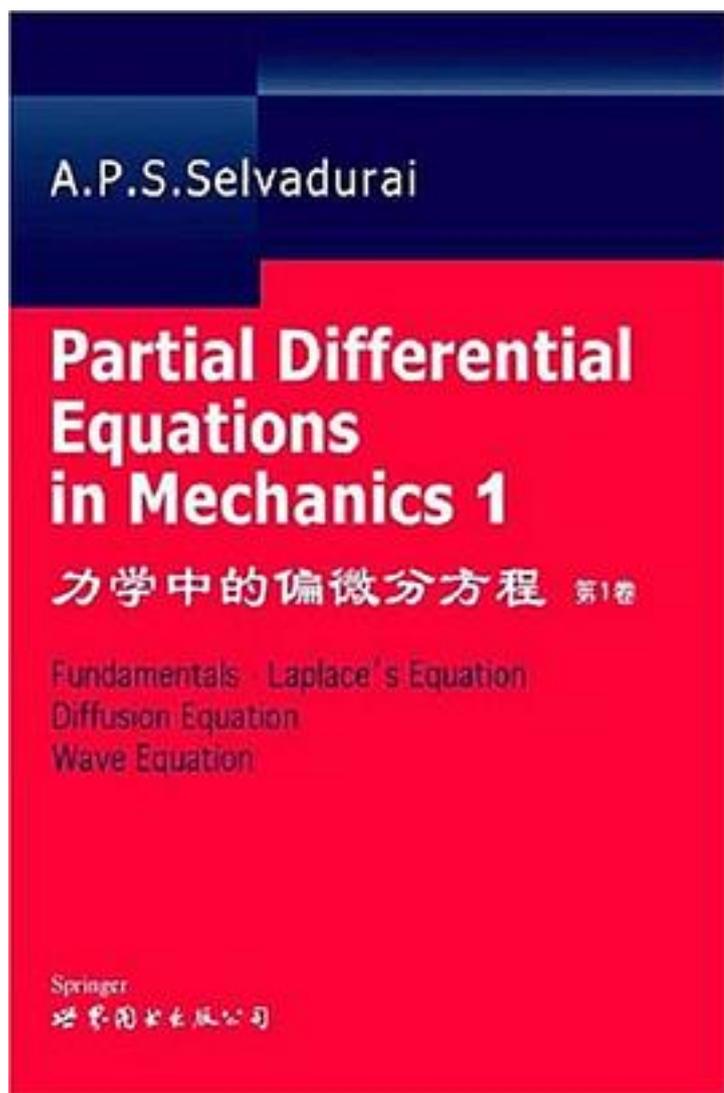


力学中的偏微分方程第1卷



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出版者:世界图书出版公司

出版时间:2004-4

装帧:简装本

isbn:9787506266079

The material presented in these monographs is the outcome of the author's long-standing interest in the analytical modelling of problems in mechanics by appeal to the theory of partial differential equations. The impetus for writing these volumes was the opportunity to teach the subject matter to both undergraduate and graduate students in engineering at several universities. The approach is distinctly different to that which would adopted should such a course be given to students in pure mathematics; in this sense, the teaching of partial differential equations within an engineering curriculum should be viewed in the broader perspective of "The Modelling of Problems in Engineering". An engineering student should be given the opportunity to appreciate how the various combination of balance laws, conservation equations, kinematic constraints, constitutive responses, thermodynamic restrictions, etc., culminates in the development of a partial differential equation, or sets of partial differential equations, with potential for applications to engineering problems. This ability to distill all the diverse information about a physical or mechanical process into partial differential equations is a particular attraction of the subject area.

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评论

这本书内容丰富，推导详实，对力学中的主流方程做了系统的讨论。上册包括一阶、二阶偏微分方程，Laplace方程，Diffusion方程，Wave方程。此书的优点是全面，并且推

导严谨细致（比如证明了解的唯一性等），最后，虽说是本大部头，读起来还比较轻松，大部分内容学校里面是开课讲过的。适合本科生高年级及研究生低年级同学阅读。

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书评

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