

<<几何分析最新进展>>

图书基本信息

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前言

"2007 International Conference in Geometric Analysis" was held in Taiwan University from June 18th to 22nd, 2007. This conference is sponsored by Mathematics Division, Center for Theoretical Sciences (NCTS) Taipei Office, Taida Institute for Mathematical Sciences (TIMS), Academia Sinica, Central University and Tsing-Hua University (Xinzu). Geometric analysis studies functions, maps, tensors, and submanifolds governed by natural differential equations. A good understanding of these objects reveals important information of analytical and geometric structures, and has many implications in physics, algebraic geometry and topology. In recent years, we have witnessed a great success of geometric analysis, the most important event being the solution of the Poincaré conjecture by the Ricci flow. This shows the power of geometric partial differential equations in resolving some deepest problems in topology.

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内容概要

The launch of this Advanced Lectures in Mathematics series is aimed at keeping mathematicians informed of the latest developments in mathematics, as well as to aid in the learning of new mathematical topics by students all over the world. Each volume consists of either an expository monograph or a collection of significant introductions to important topics. This series emphasizes the history and sources of motivation for the topics under discussion, and also gives an overview of the current status of research in each particular field. These volumes are the first source to which people will turn in order to learn new subjects and to discover the latest results of many cutting-edge fields in mathematics.

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