SECOND EDITION

Geographic Information Systems and Science

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Geographic Information Systems and Science has become the pre-eminent textbook in its field, for students and practitioners alike. Its unique approach communicates the richness and diversity of GIS in a lucid and accessible format. This fully revised and updated second edition reinforces the view of GIS as a gateway to science and problem solving, sets out the scientific principles that govern its use, and describes the impact of people on its development, design, and success. The second edition of *Geographic Information Systems and Science* includes:

- A new five-part structure: Foundations; Principles; Techniques; Analysis; and Management and Policy
- All-new personality boxes of current GIS practitioners
- New real-world applications of GIS
- New or expanded coverage of important current topics:
    - Location-based services
    - Distributed computing
    - Virtual and augmented realities
    - Homeland security
    - Business GIS and geodemographics
    - The emergence of geoportals
    - Grand challenges of GIScience
- A new suite of instructor and student resources **http://www.wiley.com/go/longley**

The second edition of *Geographic Information Systems and Science* is essential reading for undergraduates taking courses in GIS within departments of Geography, Environmental Science, Business (and Public) Administration, Computer Science, Urban Studies, Planning, Information Science, Civil Engineering, and Archaeology.
It is also provides a key resource for foundation GIS courses on taught MSc and other higher-degree programs. Professional users of GIS from governmental organizations and industries across the private sector will find this book an invaluable resource with a wealth of relevant applications.

Comments on the first edition:

"Once in a generation a textbook appears which redefines its field and becomes the standard for years to come. This is such a book."
Bob Barr, GI News, May 2001

"Anyone who uses any form of formal GIS education in the future will have this book listed as the core text for many years to come."
Civil Engineering Surveyor, November 2001

"*Geographic Information Systems and Science* is a landmark in the evolution of GIS. It is a book that captures and redefines the richness and diversity of GIS, in an accessible form".
Geometre Landmeter, March 2002

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