

An Introduction to Contemporary Remote Sensing (Electronics)

By Qihao Weng

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A PRACTICAL, FULL-COLOR GUIDE TO REMOTE SENSING

Written by an internationally renowned expert in the field, *An Introduction to Contemporary Remote Sensing* introduces the latest developments in remote sensing and imaging science. This book covers basic principles and discusses essential technologies, such as aerial photography, radar, Lidar (light detection and ranging), photogrammetry, satellites, thermal radiation, and much more. Full-color images illustrate the concepts presented, and review questions at the end of each chapter help reinforce learning. This detailed resource provides the solid foundation in remote sensing required for developing diverse geospatial applications.

Coverage includes:

- Geographic information system (GIS)
- Global positioning system (GPS), mobile mapping, and Google Earth
- Electromagnetic radiation principles
- Characteristics of remotely sensed data
- Spatial, spectral, radiometric, and temporal resolution
- Aerial photo interpretation
- Photogrammetry
- Remote sensors
- Earth observation satellites
- Digital image analysis
- Thermal remote sensing
- Active remote sensing

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Editorial Review

About the Author

Qihao Weng, Ph.D., is a professor of geography and the director of the Center for Urban and Environmental Change at Indiana State University. From 2008 to 2009, he visited NASA as a senior research fellow. Dr. Weng is also a guest/adjunct professor at Wuhan University and Beijing Normal University, and a guest research scientist at Beijing Meteorological Bureau. He currently serves as national director for the American Society for Photogrammetric and Remote Sensing (ASPRS) and is an associate editor of *ISPRS Journal of Photogrammetric and Remote Sensing.*

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