



# **Remote Sensing Tutorial: NASA Goddard Training Manual on the Role of Space Science and Technology for Using Remote Sensing to Monitor Earth and Distant Objects (CD-ROM)**

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This CD-ROM provides the complete contents of NASA's Remote Sensing Tutorial. The foreword to this epic work says:

NASA's Earth Sciences program is primarily focused on providing high quality data products to its science community. Many different Earth-sensing satellites, with diverse sensors mounted on sophisticated platforms, are in Earth orbit or soon to be launched. These sensors are designed to cover a wide range of the electromagnetic spectrum and are generating enormous amounts of data that must be processed, stored, and made available to the user community. The Applied Information Sciences Branch at NASA's Goddard Space Flight Center is heavily involved in technology outreach and transfer. As part of this activity, we recognized the need for a highly intuitive, easily accessible remote sensing tutorial that hopefully will serve as a primer for the new user as well as a teaching tool for the educational community. We wanted this tutorial to provide a detailed understanding of the utility of the data in light of the fundamental principles of electromagnetic energy, especially as they relate to sensor design and function. Enter Dr. Nicholas Short, a former NASA Goddard employee and author/editor of four NASA-sponsored books (Mission to Earth: Landsat Views the World; The Landsat Tutorial Workbook; The HCMM Anthology; and Geomorphology from Space) germane to the subject of remote sensing. We asked Nick if he would be willing to put his significant experience and talents to work to present an updated and expanded version of his past efforts. The result is... "The Remote Sensing Tutorial". Contents include:

Image Processing and Interpretation \* Geologic Applications \* Vegetation Applications \* Urban and Land Use \* Space Flight \* Landsat Tours the World \* Regional Studies - Use of Mosaics from Landsat \* Radar and Microwave Remote Sensing \* The Warm Earth: Thermal \* Aerial Photography \* Surface in 3D \* Astronaut Photography \* Ground Truth \* The Water Planet \* Geographic Information Systems \* Earth Systems Science \* Use of Remote Sensing in Basic Science Studies \* Impact Cratering \* Exploration of Extraterrestrial Bodies \* Astronomy and Cosmology \* Modern History of Space \* Interactive Image Processing

In all, this CD-ROM has over 3,000 pages reproduced using Adobe Acrobat PDF software - allowing direct viewing on Windows and Apple Macintosh systems. Reader software is included on the CD. There is no other reference that is as fast, convenient, comprehensive, and portable.

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