



Fundamentals of Remote Sensing

By George Joseph

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This book, authored by one of India's most senior and experienced remote sensing experts, covers the gamut of the technology and applications of remote sensing. It is an attempt to present the fundamental concepts covering various stages of remote sensing from data collection to end utilization, in a manner which can be appreciated by the discipline in which he/she has graduated. The book also provides an Indian perspective on remote sensing technology and applications by bringing to the fore the way the Indian Remote Sensing (IRS) programme has developed and the unique applications of the technology in India. It also contains a comprehensive bibliography and references as well as a list of useful websites for advanced reading and specialized references on remote sensing. The second edition has major additions in Chapter 11, dealing with the applications of remote sensing. Four more themes have been added. Some basic concepts of advanced data classification techniques have been added in Chapter 10. The latest advancement in IRS series has also been reflected. In order to benefit those who are familiarizing themselves with the subject for the first time, a list of acronyms and abbreviations has been added.

Contents:

Foreword / Preface to the Second Edition / Preface to the First Edition / Introduction / Electromagnetic Radiation / Fundamentals of Radiometry / Physical Basis of Signatures / Remote Sensors-An Overview / Optical-Infrared Sensors / Microwave Sensors / Platform / Data Reception and Data Products / Data Analysis / Application of Remote Sensing for Earth Resource Management / Geographical Information System (GIS) / Appendices / References / Index

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Fundamentals of Remote Sensing By George Joseph Bibliography

- Sales Rank: #4160052 in Books
- Published on: 2005-11-15
- Original language: English
- Dimensions: 9.45" h x .0" w x .0" l, 1.10 pounds
- Binding: Paperback
- 486 pages

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Editorial Review

About the Author

Dr. Joseph, George started his research career as a Cosmic Ray Scientist at the Tata Institute of Fundamental Research (TIFR), Bombay. He has been at the Space Applications Centre (SAC), Ahmedabad since 1973, where he was instrumental in developing a variety of electro-optical sensors for earth observations which were the first of their kind in India. During 1998-2003, as Satish Dhawan Distinguished Professor, Dr Joseph was engaged in studies related to various aspects of remote sensing technology and its applications. He has actively contributed in shaping and guiding the long-term remote sensing programmes of ISRO. Dr Joseph is a Fellow of a number of academies and professional bodies and is a recipient of several awards, including the Padma Bhushan in 1999 for his contributions to remote sensing activities in India.

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