



Introduction to the Physics and Techniques of Remote Sensing (Hardback)

By Charles Elachi, Jakob J. Van Zyl

John Wiley Sons Inc, United States, 2006. Hardback. Book Condition: New. 2nd Revised edition. 256 x 175 mm. Language: English . Brand New Book. The science and engineering of remote sensing--theory and applications The Second Edition of this authoritative book offers readers the essential science and engineering foundation needed to understand remote sensing and apply it in real-world situations. Thoroughly updated to reflect the tremendous technological leaps made since the publication of the first edition, this book covers the gamut of knowledge and skills needed to work in this dynamic field, including: Physics involved in wave-matter interaction, the building blocks for interpreting data Techniques used to collect data Remote sensing applications The authors have carefully structured and organized the book to introduce readers to the basics, and then move on to more advanced applications. Following an introduction, Chapter 2 sets forth the basic properties of electromagnetic waves and their interactions with matter. Chapters 3 through 7 cover the use of remote sensing in solid surface studies, including oceans. Each chapter covers one major part of the electromagnetic spectrum (e.g., visible/near infrared, thermal infrared, passive microwave, and active microwave). Chapters 8 through 12 then cover remote sensing in the study of...

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