



## METADATA

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### Abstract

The science of remote sensing is very broad, both in terms of the data used and the techniques for processing and applying it, and its rapid development must also be taken into account. This book aims to provide knowledge and understanding of the basic concepts, principles, and applications of remote sensing. It provides examples of applications of the basic principles to a variety of remote sensing topics, mainly related to data selection, collection, analysis, and interpretation. It also attempts to identify the limits of remote sensing in terms of its capabilities and limitations. The main topics covered in the textbook are: Introduction

to the science with historical data, the role of remote sensing in environmental studies, physical principles, passive and active recording instruments and their characteristics, the basic stages of pre-processing, processing, and interpretation. The last chapter presents typical examples of applications in both the natural and man-made environment, based on the author's research. At the end of each chapter, there are sources for further reading, as well as tests with questions for self-assessment. Based on its content, this book manages to maintain a balance between theory, basic satellite image processing tools, and their applications.

