

SATELLITE INTERFEROMETRY DATA INTERPRETATION AND EXPLOITATION

Case Studies from the European Ground Motion Service (EGMS)

Satellite Interferometry Data Interpretation and Exploitation: Case Studies From the European Ground Motion Service (EGMS) focuses on the interpretation and exploitation of data obtained from Interferometric Synthetic Aperture Radar (InSAR), enabling millimeter-scale deformation measurements from space. The most emblematic InSAR service, the EGMS, opens a wide range of new applications. However, for effective use of these data, interpretation techniques and methods are required. This book presents techniques and methods that can be applied to any InSAR data, as well as the most relevant technical aspects and boundaries of InSAR measurement points by linking them to real results through detailed case studies.

This book is a valuable resource for remote sensing specialists, as well as nonspecialists in geotechnics, civil engineering, geology, and other geosciences looking to apply InSAR data techniques in their activity.

Key features

- Describes InSAR technique in detail for better understanding its applications and the EGMS
- Features case studies based on manipulation of EGMS data, showing new applications of InSAR data interpretation
- Details InSAR and EGMS potential and limitations for the exploitation of InSAR data
- Features case studies based on analysis of EGMS data, showing new applications of InSAR

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