

# Building Earth Observation Cameras

## Author/Affiliation

**George Joseph**, Former Director, Space Applications Centre, Ahmedabad, India

Observing the Earth from the vantage point of space has emerged as an important means to plan our natural resources in a sustainable manner. This book helps readers understand the tradeoffs in selecting various sensor parameters for electro-optical sensors and how each parameter is optimally selected. It provides a detailed account of the actions required to make a camera system space worthy. The book includes case studies based on the IRS sensors and is a good companion for a system designer.

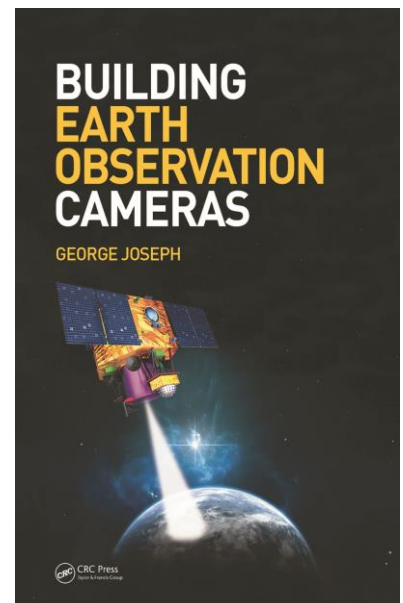


## Key Features

- Discusses engineering aspects of remote sensing cameras (satellite borne) including principles and design process along with broad application areas
- Helps reader understand how to select various sensor parameters for electro-optical sensors in space and selection/calibrations of the related hardware
- Includes insights drawn from experience of realizing earth observation systems
- Supplies technical and historical insight into development of Indian space programme, which has seen a meteoric rise

## Selected Contents

Introduction. Image Formation. Imaging Optics. Earth Observation Cameras: An Overview. Optomechanical Scanners. Pushbroom Imagers. Submeter Imaging. Hyperspectral Imaging. Adding the Third Dimension: Stereo Imaging. Journey from Ground to Space. Appendix. Index.



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