CONTENTS

Foren Prefa	word by Prof. B.L. Deekshatulu	5 7
List o	of Figures	15
List o	of Coloured Plates	18
1.	INTRODUCTION Why remote sensing ? Remote sensing activities in India, Need for a remote sensing book, Outline of the book, Contents, Foregleam.	19
2.	ELECTROMAGNETIC RADIATION Electromagnetic spectrum; Clasification of Electromagnetic Spectrum; Nature of electromagnetic radiation; Interaction of EMR and the atmosphere—Absorption, Scattering, Rayleigh scattering, Mei scattering, Non-selective scattering—Interaction of EMR with matter on the surface of the earth; Molecular rotations, Molecular vibrations; Electronic process; Crystal field effect; Conjugate bond; Spectral signature; Spectral signature of vegetation; Spectral signature of geologic material; Soils; Spectral character of water and snow.	24
3.	IMAGING SYSTEMS Background; Landsat series of satellites, SPOT, Indian Remote Sensing Satellites, IRS-1C/1D, Conclusion.	58
4.	VISUAL INTERPRETATION Types of data products; Image interpretation techniques— Detection, Recognition and identification, Analysis, Classification, Deduction, Idealization—Elements of image interpretation—Tone or colour; Pattern, Texture, Size, Shape,	77
	Shadow, Location, Association, Resolution; Instruments- Magnifying glass, Light table, Pocket stereoscope, Mirror Stereoscope, Double scanning stereoscope, Zoom stereoscope, Zoom transferscope, Stereo zoom transferscope, Sketch master, Stereo Sketch master, Radial line plotter, Parallax bar, Optical reflecting projector, Optical pantograph, Large format optical	

enlarger, Additive colour viewer, Diazo printer, Image analyser, Dual densitometer, Agro photometer; Conclusion.

5. HARDWARE AND SOFTWARE OPTIONS

Generation of computers; Selection of hardware—Scanner, Plotter, Storage device, Photowrite system—Software options, Integrated solutions; Associated technologies, Geographical information system; Land information system, Geographical positioning system; Conclusion.

6. PRE-PROCESSING AND RECTIFICATION

Radiometric corrections—Line-drop correction, De-striping, Atmospheric scattering correction; Geometric distortions, Spacecraft velocity, Mirror velocity; Cross track distortion or panoramic effect; Earth rotation correction; Non-Systematic Error and Correction—Altitude, Attitude, Ground control points, Rectification, Generation of image to map transformation model, Map-digitizer model, Acquisition of GCPs, Calculation and updating the image-map transformation model, Calculation of rectification grid, Resampling or interpolation of gray values, Nearest Neighbourhood, Bilinear interpolation, Cubic convolution, Registration or image to image rectification; Conclusion.

7. ENHANCEMENT TECHNIQUES

Introduction; Contrast stretch or enhancement; Linear contrast stretch; Histogram equalisation; Computation of transformation functions; Logarithmic contrast enhancement; Exponential contrast enhancement, Gaussian Stretch

8. SPATIAL FILTERING

How filtering is performed; Noise removal—Averaging, Median filtering; Edge enhancements; Discrete convolution filtering; Laplacian edge ehancement filtering; Robert edge enhancement filtering—Statistical differences; Local optimisation; Edge extraction or edge detection; Robert edge extraction; Kirsch filtering operation; Frequency domain; Fourier transformation; Normalization or range compression; Hadamard transformation filtering; Conclusion.

9. BAND COMBINATION

Introduction; Linear combination; Ratioing of bands; Brightness or square root of sum of sqares—Post normalisation, Principal component analysis; Mathematics of principal components— Alternative methods for determining of eigen vectors.

129

DYIDAMI 141

159

110

Contents

10. CLASSIFICATION TECHNIQUES 178

Graphical presentation of pattern recognition; Selection of Bands—Variance-covariance matrix, correlation matrix, Statistical separability, Brightness value overlapping index; Classification scheme; Supervised classification—Training sites selection and statistical extraction, Discriminant functions; Probability density or maximum likelihood dassifier; Euclidian distance; Mahalanobis distance; Unsupervised classifications; Hierarchical or tree classification—User's specified bands; Histogram partition; Automatic; Equipopulation; Formation of hierarchical Ascending classification tree; Hyper cube grouping; Conclusion.

11. GEOGRAPHICAL INFORMATION SYSTEM

Basic principles; GIS hardware—Raster and vector formats; Data conversion methods; GIS software; Remote sensing and GIS; Application of remote sensing based GIS; Digital Topographical data standards; Geographical data bases available in India; Possible bases for GIS; Assessment of GIS packages; GIS and private sector.

12. APPLICATION TRENDS

Agriculture: Land use/land cover: Visual interpretation, Digital Image Processing; Soil Mapping: Methodology; Crop inventory; Crop production forecasting: Crop acreage estimation: Digital analysis, sampling plan and stratification, multi-stage stratification; Selection of sampling fraction, sample segment extraction, training signature generation, classification, aggregation of acreage estimation, accuracy assessment of remote sensing estimate of crop acreage; Crop yield forecasting: spectral yield models, conversion of digital numbers into radiance, sensor to sensor transformation, normalization of acquisition data, statistical analysis, growth profile based model, change detection, change detection techniques, image differences, ratio image differences, principle component analysis; Hydrology: approach and methodology for ground water exploration: Soil moisture: passive microwave remote sensing for soil moisture estimation; Runoff: background methodology, soil, conservation service (USDA) method, determination of curve number from IRS-1A digital data; forest/ vegetation; Geology, other applications.

13. CONCLUSION

Remote sensing data products; Trends of RS data application: (a) National (Natural) Resources Information Systems, 214

200

Digita	Remote	Sensing
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(b) Integrated Mission for S	Sustainable Development;			
New Data Products and Pos	ssible Applications: example of			
IRS-1C; Emerging Indian S	Scenario; Conclusion.			
General Site Shize RID Deebas	reparability, Brightocsaryalbo dverlappinio			
Appendices				
I List of Companies and A	vailable Instruments	271		
II Functional Specifications	s Required for GIS	276		
III IRS-IC Orbit, Coverage	and Referencing Scheme	279		
IV Estimation of the Centre	and Corner Co-ordinates of			
LISS-III and PAN Scene	S	283		
V Announcement of Satelli	te Data Product Prices for Indian			
Users for the Period 1-4-	-1997 to 31-3-1998	285		
VI Specifications of IRS-P4	Payload	294		
Bibliography		296		
Index				