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Nota di contenuto	V -- Preface xiii -- Acknowledgments xv -- 1 Communication Electronic Warfare Systems 1 -- 1.1 INTRODUCTION 1 -- 1.2 INFORMATION WARFARE 1 -- 1.3 ELECTRONIC WARFARE 3 -- 1.4 ELECTRONIC SUPPORT 5 -- 1.5 ELECTRONIC ATTACK 10 -- 1.6 TYPICAL EW SYSTEM CONFIGURATION 11 -- 1.7 CONCLUDING REMARKS 16 -- References 16 -- 2 Electromagnetic Signal Propagation 19 -- 2.1 INTRODUCTION 19 -- 2.2 SIGNAL PROPAGATION 19 -- 2.3 RF BAND DESIGNATIONS 20 -- 2.4 POLARIZATION 22 -- 2.5 POWER DENSITY 22 -- 2.6 FREE-SPACE PROPAGATION 24 -- 2.7 DIRECT WAVE 27. 2.8 WAVE DIFFRACTION 33 -- 2.9 REFLECTED WAVES 35 -- 2.10 SURFACE WAVE 40 -- 2.11 DUCTING 41 -- 2.12 METEOR BURST 41 -- 2.13 SCATTERING 42 -- 2.14 CHARACTERISTICS OF THE MOBILE VHF CHANNEL 43 -- 2.15 PROPAGATION VIA THE IONOSPHERE 46 -- 2.16 CONCLUDING REMARKS 52 -- References 53 -- 3 Noise and Interference 55 -- 3.1 INTRODUCTION 55 -- 3.2 THERMAL NOISE 56 --

Sommario/riassunto

Annotation This comprehensive engineering-level resource provides you with an excellent introduction to electronic warfare (EW) for communication systems. Extensively referenced with over 600 equations, it details the components, systems, and operations of electronic warfare systems dedicated to protecting and attacking military communications networks. You are provided with a complete understanding of how modern direction finders for communication signals work, along with their limitations.

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Titolo	Hydrologic Modeling : Select Proceedings of ICWEES-2016 / / edited by Vijay P Singh, Shalini Yadav, Ram Narayan Yadava
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	1. Rainfall Probability Distribution Analysis in Selected Lateral Command Area of Upper Krishna Project (Karnataka), India, by N.K. Rajeshkumar -- 2. Analyzing Rainfall and Reservoir Release Pattern for Ajwa Reservoir – A Case Study, by Pushkar Sharma -- 3. Preliminary Investigations on Localized Rainfall Interception Losses Under Real Field Observations, by M. L. Gaur -- 4. Probabilistic Estimation of Design Daily Runoff from Bamhani Watershed, India by Sarita Gajbhiye Meshram -- 5. Development of Generalized Higher-Oder Neural Network Based Models for Estimating Pan Evaporation, by Sirisha Adamala -- 6. Sensitivity Analysis of FAO-56 Penman-Monteith Reference Evapotranspiration Estimates Using Monte-Carlo Simulations, by Gicy M. Kovoor -- 7. Quantification of Error in Estimation of Reference Crop Evapotranspiration by Class A Pan and its Correction, by S. Praharaj -- 8. Spatial and Temporal Analyses of Impervious Surface Area on Hydrological Regime of Urban Watersheds, by Tauseef A. Ansari -- 9. An Assessment of Hydrological Impacts Due to Changes in the Urban Sprawl in Bhopal City and ITS Peripheral Urban-Rural Fringe, by L Patel -- 10. Simulation of Urban Drainage System Using Disaggregated Rainfall Data, by Vinay Ashok Rangari -- 11.

Investigation of Drainage for Structures, Lithology and Priority (Flood & Landslide) Assessment Using Geospatial Technology, J&K NW Himalaya, by Umair Ali -- 12. Hydrologic Design Parameters Database for Water Harvesting Structures in Madhya Pradesh, by Ramadhar Singh -- 13. Application of Storm Water Management Model to an Urban Catchment, by V Swathi -- 14. A Study of Erosional Depositional Activity and Land Use Mapping of Majuli River Island Using Landsat Data, by Dipsikha Devi -- 15. Study of Soil Erosion and Deposition Around an Island in a Natural Stream, by Snighdhadip Ghosh -- 16. Impact Assessment of Alternate Land Cover and Management Practices on Soil Erosion: A Case Study, by T.R. Nayak -- 17. Geostatistical Analysis of River Sedimentation Behaviour in Kerala State, by Mathew K. Jose -- 18. Study of Mineralogical composition of sediment in Brahmaputra River in Urban stretch of Guwahati city, Assam, India, by Mamata Das -- 19. Hypsometric Analysis for Assessing Erosion Status of Watershed Using Geographical Information System, by S.K. Sharma -- 20. Assessment of Different Bathymetry Statistical Models Usinglandsat-8 Multispectral Images, by Omar Makboul -- 21. Estimation of Minimum and Maximum Air Temperature using MODIS Remote Sensing Imagery and Geographical Information System (GIS), by Sardhara Bharatkumar -- 22. A RS & GIS Approach for Estimation of Runoff and Soil Erosion in SA-13 Watershed, by H. N. Bhange -- 22. Rainwater Harvesting Structure Site Suitability Using Remote Sensing and GIS, by B.K Gavit -- 23. Land Surface Temperature Estimation Using Remote Sensing Data, by Vijay Solanky -- 24. Watershed Prioritization of Wardha River Basin, Maharashtra India Using Morphometric Parameters: A Remote Sensing and GIS Based Approach, by B. S. Manjare -- 25. Flood Assessment of Lolab Valley from Watershed Analysis Using Remote Sensing and GIS Techniques, by Mannan Bashir Wani -- 26. Delineation of Paleo-Channels in Periyar River Basin of Kerala Using Remote Sensing and Electrical Resistivity Methods by C P Proju -- 27. Application Of Eo-1 Hyperion Data For Mapping And Discrimination Of Agricultural Crops -- 28. Morpho-Mathematical Analysis of Bharar River Basin District Chhatarpur-Central India, by Pradeep Kumar Jain -- 29. Application of Principal Component Analysis for Grouping of Morphometric Parameters and Prioritization of Watershed by Sarita Gajbhiye Meshram -- 30. Velocity Distribution in Vortex Chamber at High Water Abstraction Ratio, by Mohammad Athar -- 31. Performance Appraisal of Friction Factor Estimators, by Abhishek Mishra -- 32. Experimental Investigations of Wave Height Attenuation by Submerged Artificial Vegetation by Beena Mary John -- 33. Developing Rating Curves for Nubia Lake, Sudan, Using RS/GIS, by Mohamed Elsahabi -- 34. A Spreadsheet Approach for Prediction of Rating Curve Parameters, by Javel Alam -- 35. Experimental Study on Role of Emergent Artificial Coastal Vegetation in Controlling Wave Run Up, by Beena Mary John -- 36. Development of Regional Soil Water Retention (SWR) Characteristics, by R. K. Jaiswal -- 37. Revision of Empirical Coefficients of Commonly Used Flood Formulae Using Flow Data from Karnataka Rivers, by Chandramohan T -- 38. Reservoir Inflow Forecasting Using Extreme Learning Machines, by Mukesh Kumar Tiwari -- 39. Quantifying Discontinuity, Connectivity, Variability, and Hierarchy in Overland Flow Generation: Comparison of Different Modeling Methods, by Xuefeng Chu -- 40. Nondimensional UH Based Smoothing of S-Curve Derived UH Oscillations, by P.R. Patil -- 41. Fuzzy-based Comprehensive Evaluation of Environmental Flow Alteration, by Kairong Lin -- 42. Spatial Characters of a Tropical River Basin, Southwest Coast of India, by Girish Gopinath.-43. Streamflow Estimation Using SWAT Model Over Seonath River Basin, Chhattisgarh, India, by Sabyasachi Swain -- 44.

Revisiting the Soil Conservation Service Curve Number Method, by S.K. Mishra -- 45. Hydrological Impacts of Rejuvenating Degraded Hilly Watershed in Shivalik Region by A.K. Tiwari -- 46. Modelling of a River Basin Using SWAT Model by B. Venkatesh -- 47. Performance of The Xinanjiang Model by Ajay Ahirwar.

Sommario/riassunto

This book contains seven parts. The first part deals with some aspects of rainfall analysis, including rainfall probability distribution, local rainfall interception, and analysis for reservoir release. Part 2 is on evapotranspiration and discusses development of neural network models, errors, and sensitivity. Part 3 focuses on various aspects of urban runoff, including hydrologic impacts, storm water management, and drainage systems. Part 4 deals with soil erosion and sediment, covering mineralogical composition, geostatistical analysis, land use impacts, and land use mapping. Part 5 treats remote sensing and geographic information system (GIS) applications to different hydrologic problems. Watershed runoff and floods are discussed in Part 6, encompassing hydraulic, experimental, and theoretical aspects. Water modeling constitutes the concluding Part 7. Soil and Water Assessment Tool (SWAT), Xinanjiang, and Soil Conservation Service-Curve Number (SCS-CN) models are discussed. The bookis of interest to researchers and practitioners in the field of water resources, hydrology, environmental resources, agricultural engineering, watershed management, earth sciences, as well as those engaged in natural resources planning and management. Graduate students and those wishing to conduct further research in water and environment and their development and management find the book to be of value.