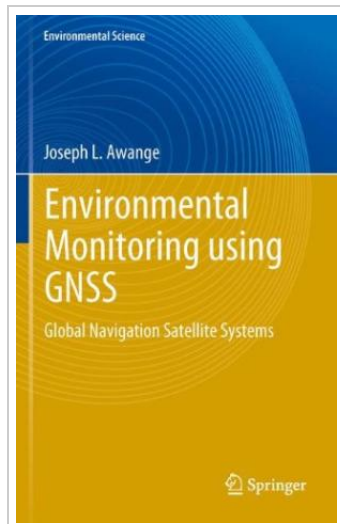




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Environmental Monitoring Using Gnss: Global Navigation Satellite Systems

By Joseph L. Awange

Springer. Hardcover. Condition: New. 382 pages. Dimensions: 9.7in. x 6.1in. x 1.1in. Global Navigation Satellite Systems (GNSS) are revolutionizing the world in a way their original developers never envisaged. From being military war tools, GNSS satellites are rapidly becoming peace tools that play a potentially critical role in enabling changing environmental phenomenon that do not permit direct measurements to be remotely observed via their all-weather, highly accurate and continuously updatable positional time series. This is evident, for example, in their use in emerging environmental monitoring methods that are considered in this book. These include: GPS-based radio telemetry, which is enhancing ecological and conservation monitoring by more accurately mapping animal movements, their behaviours, and their impact on the environment; GNSS-meteorology, which is contributing to weather and climate change studies; GNSS-remote sensing, which, for example, allows the rapid monitoring of changes in fresh water resources and cryosphere; Geosensor network techniques, which are earning a crucial role in disaster response management; Epidemiology, for improved efficiency in tracking and studying the spread of infectious diseases and climate change effects on vector-borne diseases; and Economics, to provide data for the econometric modelling of casual impact of policies. In Environmental Impact Assessments (EIA), Strategic Environmental Assessments (SEA),...



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