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Autor:

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This book provides unique perspectives on the state of the art in multispectral/hyperspectral techniques for early-warning monitoring against chemical, biological and radiological (CB&R) contamination of both surface (e.g. land) and air (e.g. atmospheric) environments through the presentation of a comprehensive survey of the novel spectroscopic methodologies and technologies that are emerging to address the CB&R defense and security challenges of the future. The technical content in this book lends itself to the non-traditional requirements for point and stand-off detection that have evolved out of the US joint services programs over many years. In particular, the scientific and technological work presented seeks to enable hyperspectral-based sensing and monitoring that is in real time and in-line; low in cost and labor requirements; and easy to support, maintain and use in military and security-relevant scenarios.

Contents:

The Hypertemporal-Hyperspectral Analysis Test Station _ HYHATS (T Old et al.)

Wavelength Selective Bolometer Design (S Han et al.)

Multisensory Detection System for Damage Control and Situational Awareness (C P Minor et al.)

Inexpensive Chemical Defense Network for a Fixed Site (J A Seeley et al.)

Precision Measurement of Atmospheric Trace Constituents Using a Compact Fabry-Perot Radiometer (W S Heaps et al.)

Background Characterization with a Scanned Fourier Transform Spectrometer (A K Lazarevich et al.)

Signal Processing Algorithms for Staring Single Pixel Hyperspectral Sensors (D Manolakis et al.)

Estimating the Limit of Bio-Aerosol Detection with Passive Infrared Spectroscopy (A Ifarraguerri et al.)