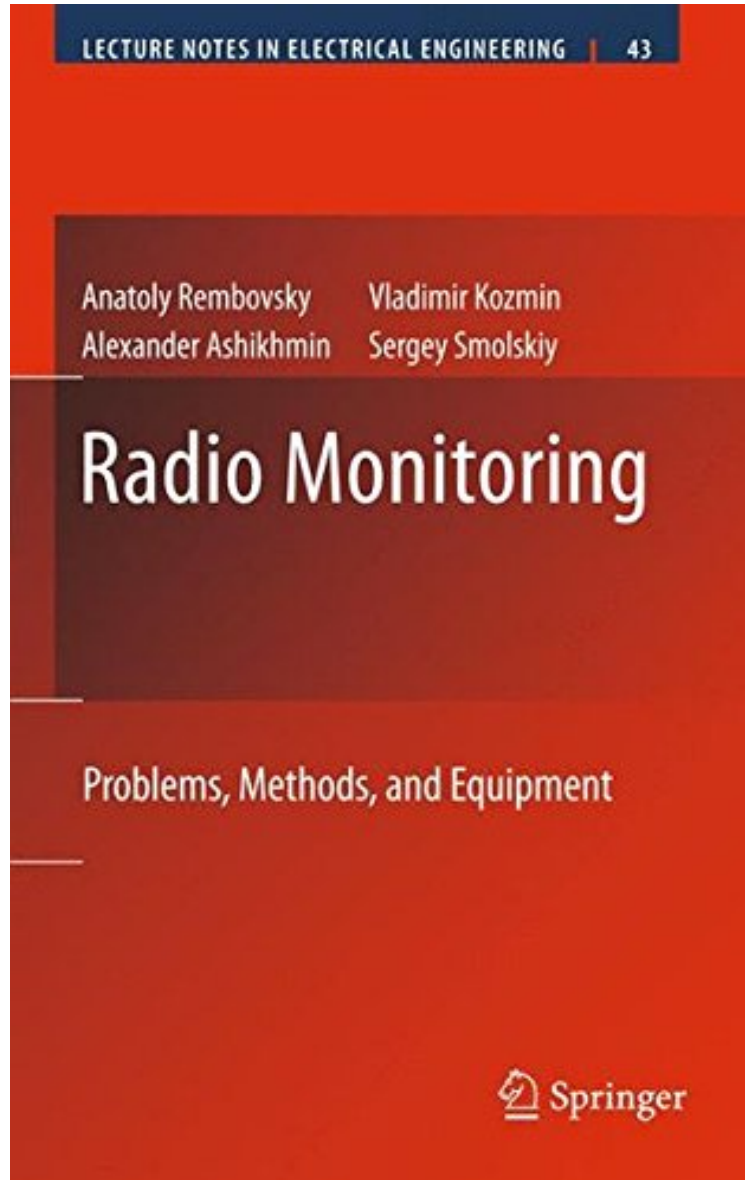


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(Volume 43)

Radio Monitoring: Problems, Methods and Equipment (Lecture Notes in Electrical Engineering) (Volume 43)

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Radio Monitoring: Problems, Methods, and Equipment offers a unified approach to fundamental aspects of Automated Radio Monitoring (ARM). The authors discuss the development, modeling, design, and manufacture of ARM systems. Data from established and recent research are presented and recommendations are made on methods and approaches for solving common problems in ARM. The authors also provide classification and detailed descriptions of modern high-efficient hardware-software ARM equipment, including the equipment for detection, radio direction-finding, parameters measurement and their analysis, and the identification and localization of the electromagnetic field sources. Examples of ARM equipment structure, applications, and software are provided to manage a variety of complicated interference environment in the industrial centers, inside of the buildings, and in the open terrain. This book provides a reference for professionals and researchers interested in deploying ARM technology as a tool for solving problems from radio frequency spectrum usage control.

From the Back Cover Radio Monitoring: Problems, Methods, and Equipment discusses the fundamental Automated Radio Monitoring (ARM) systems including reference data and recommendations for the methodology involved in those systems. The material includes a description of the equipment for detection, radio direction-finding, parameters measurement and analysis, and the identification and localization of the electromagnetic field sources. The authors also provide examples of the ARM equipment structure, software, and applications with regards to complicated interference environments such as industrial centers, the interiors of buildings, and open terrain. Other topics include: Mathematical aspects of narrow-band signal detection as well as signals with dynamic frequency-time distribution; Technical analysis and parameter measurement of modulated and non-modulated signals; Discussion of basic parameters for up-to-date radio receivers affecting the problem of ARM fulfillment; Analysis of the nomenclature, structure, functions and parameters of ARM equipment. Radio Monitoring: Problems, Methods, and Equipment is a useful resource for engineers and experts in field of radio monitoring.