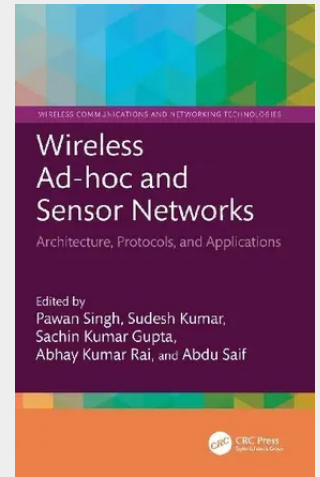


Wireless Ad-hoc and Sensor Networks

Architecture, Protocols, and Applications

The book presents theoretical and experimental approaches, quantitative and qualitative analyses, and simulations in wireless ad-hoc and sensor networks. It further explains the power and routing optimization in underwater sensor networks, advanced cross-layer framework, challenges and security issues in underwater sensor networks, and the use of machine learning and deep learning techniques for security implementations in wireless ad-hoc and sensor networks. This book: - Discusses mobile ad-hoc network routing issues and challenges with node mobility and resource limitations - Covers the internet of vehicles, autonomous vehicle architecture, and design of heterogeneous wireless sensor networks - Presents various technologies of ad-hoc networks, use of machine learning, and deep learning techniques in wireless sensor networks - Illustrates recent advancements in security mechanisms for information dissemination in mobile ad-hoc networks, vehicular ad-hoc networks, flying ad-hoc networks, and autonomous vehicles - Highlights mathematical modeling and analysis of routing protocols for ad-hoc networks and underwater sensor networks It is primarily written for undergraduate and graduate students, researchers, and academicians in the fields of computer science and engineering, information technology, electrical engineering, and electronics and communications engineering.

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