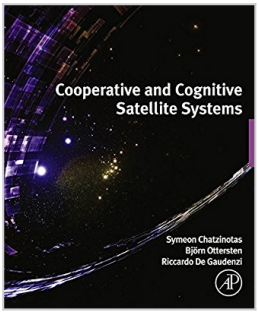

Cooperative and Cognitive Satellite Systems

By Symeon Chatzinotas, Bjorn Ottersten, Riccardo De Gaudenzi

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Cooperative and Cognitive Satellite Systems provides a solid overview of the current research in the field of cooperative and cognitive satellite systems, helping users understand how to incorporate state-of-the-art communication techniques in innovative satellite network architectures to enable the next generation of satellite systems.

The book is edited and written by top researchers and practitioners in the field, providing a comprehensive explanation of current research that allows users to discover future technologies and their applications, integrate satellite and terrestrial systems and services to create innovative network architectures, understand the requirements and possibilities for future satellite communications standards and protocols, and evaluate the feasibility and practical constraints involved in the deployment process.

- Provides a solid overview of the current research in the field of co-operative and cognitive satellite systems
- Presents concepts in multibeam and multicarrier joint processing and high performance random access schemes
- Explains hybrid and dual satellite systems, cognitive broadband satellite systems, spectrum exploitation, and resource allocation

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Editorial Review

From the Back Cover

Providing a solid overview of the current research in the field of Co-operative and Cognitive Satellite Systems, this book shows how to incorporate state-of-the-art communication techniques in innovative satellite network architectures, enabling the next generation of satellite systems. The book is edited and written by top researchers and practitioners in the field.

Coverage includes:

Evaluate the feasibility and practical constraints involved in the deployment process About the Author Symeon Chatzinotas is a Research Scientist at the Interdisciplinary Centre for Security, Reliability and Trust, University of Luxembourg. He has worked on numerous R&D projects and has authored more than 120 technical papers in refereed international journals, conferences and scientific books. He has served as Technical Program Committee member in numerous conferences and he is a Senior IEEE member. His research interests are in multiuser information theory, cooperative/ cognitive communications, and wireless network optimization.

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Riccardo de Gaudenzi is Head of the Radio Frequency Systems, Payload and Technology Division at the European Space Agency Research and Technology Centre (ESTEC), Noordwijk, The Netherlands. The division is responsible for supporting the definition and development of advanced satellite system, subsystems and related technologies for telecommunications, navigation and earth observation applications. He has been responsible for a large number of R&D activities for TT&C, Telecom and Navigation applications. He spent one year with Qualcomm Inc., San Diego USA, in the Globalstar project system group. His current interest is mainly related with efficient digital modulation and multiple access techniques for fixed and mobile satellite services, synchronization topics, adaptive interference mitigation techniques and communication systems simulation techniques. He actively contributed to the development and the demonstration of the ETSI S-UMTS Family A, S-MIM, DVB-S2, DVB-S2X, DVB-RCS2 and DVB-SH standards. He has published more than 140 scientific papers and own more than 20 patents. Users Review**From reader reviews:**
Shawn Holmes:The book with title Cooperative and Cognitive Satellite Systems has a lot of information that you can find out it. You can get a lot of benefit after read this book. This particular book exist new know-how the information that exist in this guide represented the condition of the world today. That is important to yo7u to be aware of how the improvement of the world. This kind of book will bring you inside new era of

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