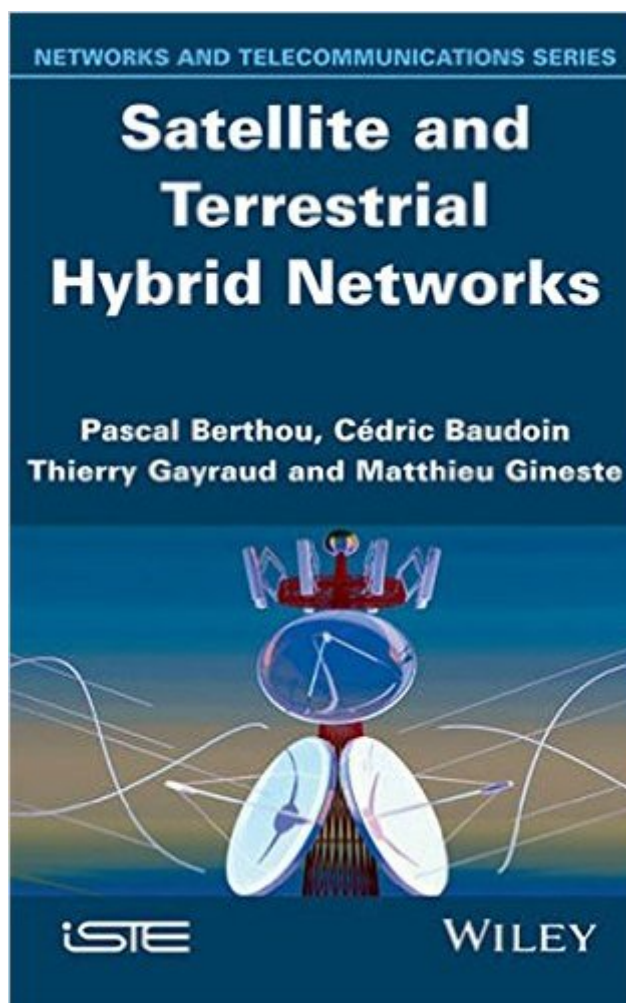


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Satellite And Terrestrial Hybrid Networks (Iste)



Synopsis

This book offers the reader the keys for a successful understanding, integration and usage of satellite systems in addition to next generation terrestrial networks. The DVB-S2/RCS system is used to illustrate the integration challenges. The presentation uses a system approach, i.e. it tackles the terrestrial and satellite telecommunication systems' complexity with a high level approach, focusing on the systems' components and on their interactions. Several scenarios present the different paths that can be followed for the integration of satellite systems in terrestrial networks. Quality of Service management techniques in terrestrial and satellite systems and the solutions to help them to interoperate are provided. Inter-system mobility solutions and performance problems are then addressed. The solutions proposed in this book have been developed within the framework of European and French funded research projects and tested with simulated or real testbeds.

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