Cellular System Design and Optimization

Clint Smith, Curt Gervelis
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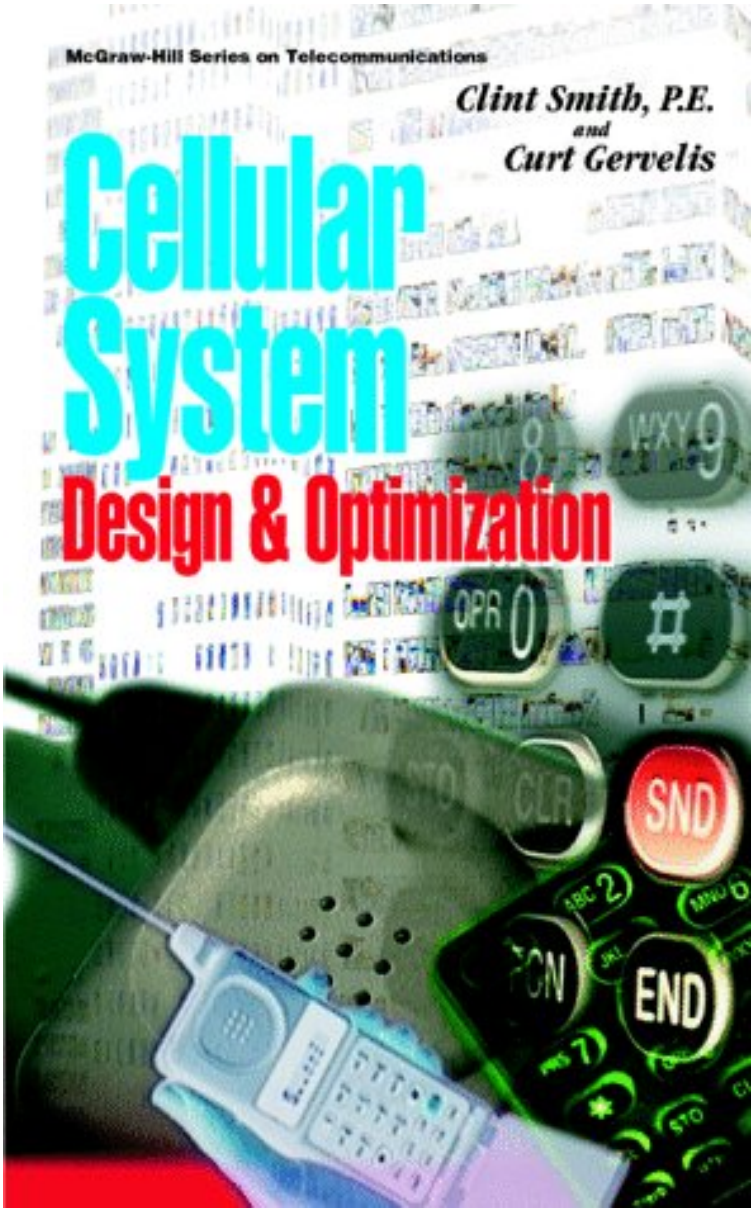

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Clint Smith, Curt Gervelis : Cellular System Design and Optimization before purchasing it in order to gage whether or not it would be worth my time, and all praised Cellular System Design and Optimization:

Get a Powerhouse Cellular System Up and Running in Record Time! Plus--Priceless On-the-Job Tips for Optimizing and Expanding Any System! Stay on top of today's cutting-edge cellular technology; Save time and effort with step-by-step design guidelines; Exploit proven methods for keeping your system operating at peak efficiency; And much more.

From the Back CoverIf you are a seasoned professional or new to the wireless industry. . .If you are an engineer, manager, or director who needs to keep a cellular system working reliably on a daily basis, then you need this practical cellular and wireless reference. Regardless of your experience level, Cellular System Design and Optimization will be a valuable source of information. Professionals working within the wireless industry will want this book to be part of their technical resource library as a practical guide , optimize, and expand their wireless systems. This guide covers both radio frequency and network aspects. You'll find design principles, and proven troubleshooting techniques and a wealth of engineering case studies. This book is unique in that it proposes the reporting schemes and organization structure that are required for system design and optimization. This hands-on reference covers:RF Engineering Topics--radio system, propragation, ERP, link budgets, antennas, filters, cell site configurations, modulation, CDPD, microcells, path clearance, in-building systems, digital cellular, and spread spectrum; Basic Network Components--basic switching concepts, components of a voice network, SS7, and auxiliary cellular systems; RF Design Guidelines--cell site design, FCC and FAA guidelines, EMF compliance, frequency planning, radio expansion, and antenna change and alteration; Network Design Guidelines--system switching design, system interconnect design for voice and data, and network reliability and flexibility; RF Performance and Troubleshooting--key factors to utilize, lost calls, attempt failures, radio blocking, retunes, drive testing, site activation and investigations, intermodulation, downtilting, and EMF; Network Performance and Troubleshooting--Network node performance, link performance, routing performance, software performance, and call delivery troublehsooting; Reports--Network performance reports, RF performance, system growth, exception reports, customer care, project status, and others; Network and RF Growth Planning--Methodology and network and RF growth planning; Organization and training--technical organization structure and training recommendations.