



Mobile Communications Engineering: Theory and Applications

By William C. Y. Lee

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From one of the field's foremost educators, here is the classic guide to mobile communication—fully revised for the 1990s and beyond. It is unique because it shows readers how to understand the differences in applying technologies between wireline communications and wireless communications. The new second edition extensively updates the basics. It also covers traffic and capacity analysis on mobile communications networks and addresses rapidly expanding new technologies, such as digital cellular, PCS, and multiple access techniques not only including FDMA, TDMA, CDMA, and SDMA, but also applying the techniques on the virtual channels.

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Editorial Review

From the Back Cover

Fully revised and updated--The complete guide to mobile communications. The first edition of this classic reference work explained the design and development of mobile radio systems for voice and data in rigorous yet clear terms--and quickly became the bestselling guide to the subject. Now Dr. William Lee, the field's foremost scientist and instructor, has fully updated his guide to cover all the new technologies that are changing the face of mobile communications, Instead of merely describing the various existing and emerging systems, Dr. Lee helps you understand the crucial difference between applications for wireline and wireless communications. Writing for telecommunications engineers and managers, as well as students, he also thoroughly addresses such advancements as: Digital cellular and PCs; Conventional multiple access technologies, including FDMA, TDMA, CDMA, and SDMA; Various multiple access technologies on virtual channels; Traffic and capacity analysis on mobile communications networks; conceptual clarification of difficult topics, like processing gain, diversity gain, etc.; New concepts like data transmission, multiuser detetion, wavelet representation, etc.; different system applications, including terrestrial mobile systems, satellite mobile, wireless local loops, and wideband systems. ABOUT THE AUTHOR William C.Y. Lee is vice President and Chief Scientist for Applied Research and Science at AirTouch Communications in Walnut Creek, California. Dr. Lee is one of the foremost educators in the field of mobile communication and is the bestselling author of Mobile Cellular Telecommunications, Second Edition, also published by McGraw-Hill.

About the Author

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