

# Fundamentals Of Voice-quality Engineering In Wireless Networks

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This book describes solutions for maximising voice quality over wireless networks at the device and system levels. Network operators are faced with the challenge of maximizing the quality of voice transmissions in wireless communications without impairing speech or data transmission. This book provides a comprehensive survey of voice quality algorithms, features, interactions, and trade-offs, at the device and system levels. Using a practitioner rather than algorithm-designer angle, this book is unique. The book elaborates on the root cause of impairments and ways for resolving them, as well as methodologies for measuring and quantifying voice quality before and after applying the remedies. A 'troubleshooting and case studies' chapter provides a useful approach to identifying and solving network impairments. Avoiding complex mathematics, the approach is based on real and sizable field experience supported by scientific and laboratory analysis. This title is suitable for practitioners in the wireless communications industry and graduate students in electrical engineering. Further resources, including a range of audio examples are available online at [cambridge.org/9780521855952](http://cambridge.org/9780521855952). EAN/ISBN : 9780511258107 Publisher(s): Cambridge University Press Format: ePub/PDF Author(s): Perry, Avi

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