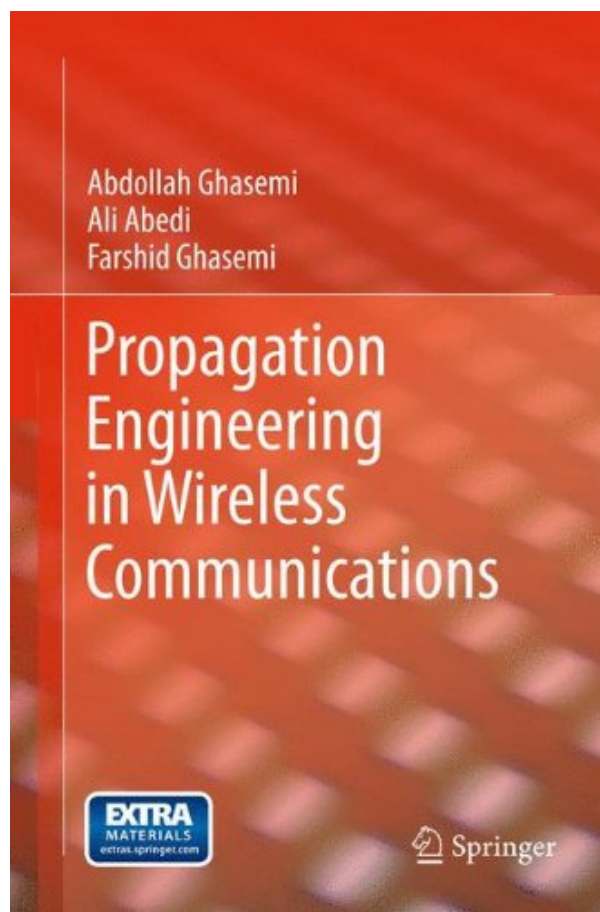


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From the Back Cover

Wireless communications has seen explosive growth in recent decades, in a realm that is both broad and rapidly expanding to include satellite services, navigational aids, remote sensing, telemetering, audio and video broadcasting, high-speed data communications, mobile radio systems and much more. Propagation Engineering in Wireless Communications deals with the basic principles of radiowaves propagation for frequency bands used in radio-communications, offering descriptions of new achievements and newly developed propagation models. The book bridges the gap between theoretical calculations and approaches, and applied procedures needed for advanced radio links design.

The primary objective of this two-volume set is to demonstrate the fundamentals, and to introduce propagation phenomena and mechanisms that engineers are likely to encounter in the design and evaluation of radio links of a given type and operating frequency.

Volume one covers basic principles, along with tropospheric and ionospheric propagation, MF/HF ionospheric links and mobile and fixed line of sight tropospheric radio communications complete with special topics related to radiowaves propagation in guided media and FSO links. The second volume examines propagation mechanisms related to radar, satellite, short distance, broadcasting and trans-horizon radio links, with two chapters devoted to radio noise and main parameters of radio link design.

Each chapter offers an introduction, definitions, basic formulas and expressions, applied relations, calculation procedures, tables, figures, examples, summary, questions and problems related to the chapter topic. Most of the principles discussed here are based on the recommendations of the International Telecommunications Union (ITU).

The book presents some 140 illustrations, 20 tables, 80 solved examples, 180 questions and 140 problems,

along with acronyms and appendices.

#### About the Author

Dr. A. Abedi is currently an Associate Professor and Director of WiSe-Net Lab Electrical and Computer Engineering Dept, University of Maine.

F. Ghasemi is currently a researcher at the Photonics Research Group at Georgia Institute of Technology.

A. Ghassemi is Managing Director, Tarhe Ertebatat Telecom Consultants

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Propagation Engineering in Wireless Communications covers the basic principles needed for understanding of radiowaves propagation for common frequency bands used in radio-communications. This book includes descriptions of new achievements and new developments in propagation models for wireless communication. The book is intended to bridge the gap between the theoretical calculations and approaches to the applied procedures needed for radio links design in a proper manner. The authors intention is to emphasize propagation engineering by giving sufficient fundamental information and then going on to explain the use of basic principles together with technical achievements in this field.

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