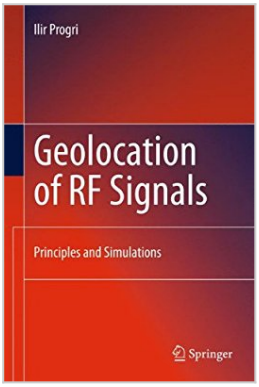

Geolocation of RF Signals: Principles and Simulations

By Ilir Progri

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Geolocation of RF Signals?Principles and Simulations offers an overview of the best practices and innovative techniques in the art and science of geolocation over the last twenty years. It covers all research and development aspects including theoretical analysis, RF signals, geolocation techniques, key block diagrams, and practical principle simulation examples in the frequency band from 100 MHz to 18 GHz or even 60 GHz. Starting with RF signals, the book progressively examines various signal bands – such as VLF, LF, MF, HF, VHF, UHF, L, S, C, X, Ku, and, K and the corresponding geolocation requirements per band and per application – to achieve required performance objectives of up to 0º precision. Part II follows a step-by-step approach of RF geolocation techniques and concludes with notes on state-of-the-art geolocation designs as well as advanced features found in signal generator instruments.

Drawing upon years of practical experience and using numerous examples and illustrative applications, Ilir Progri provides a comprehensive introduction to *Geolocation of RF Signals*, and includes hands-on real world labs and applications using MATLAB in the areas of: RF signals specifications, RF geolocation distributed wireless communications networks and RF geolocation.

Geolocation of RF Signals?Principles and Simulations will be of interest to government agency program managers industry professionals and engineers, academic researchers, faculty and graduate students who are interested in or currently designing, developing and deploying innovative geolocation of RF Signal systems.

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Editorial Review

Review

Aus den Rezensionen:

"… Ilir Progri präsentiert in diesem Buch die technische, signalbezogene Seite der Geolocation. … Positiv ist die Präsentation der aktuellen Situation und der Entwicklungen in den spezifischen Forschungsgebieten – mit zahlreichen Literaturangaben, die ein Vertiefen ermöglichen. Spezialisten, die sich einen Überblick über Geolocation-HF-Signale und die zu ihrer Auswertung benötigten (mathematisch anspruchsvollen) Algorithmen verschaffen möchten, werden in diesem Buch eine willkommene Quelle finden." (in: Bulletin SEV/VSE, 7/October/2011, Issue 10, S. 68)

From the Back Cover

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