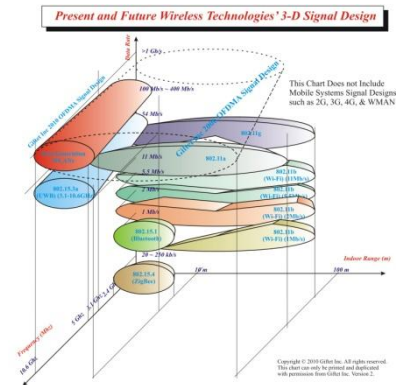
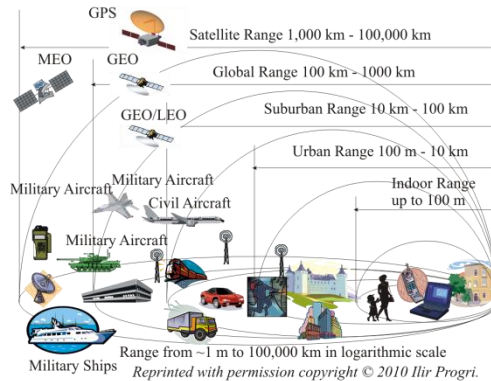
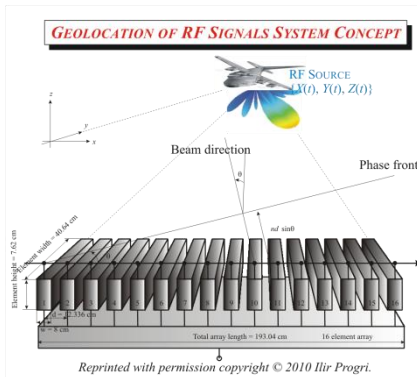


Geolocation of RF Signals: Principles and Simulations

Giffet® Geolocation of RF Signals: Principles and Simulations

November 15, 2011: In the morning!
Westin Hotel, Waltham, Massachusetts, USA



SUMMARY / LEVEL

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 66 GHz. Dr. Proгри reveals the research and development process by demonstrating how to understand and explain geolocation of RF signals from basic diagrams to the final principle simulation examples and make recommendations for the future final products of geolocation of RF signals. Starting with RF signals, the tutorial 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 0° precision. Next 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. The tutorial also includes the best mathematical techniques employed for geolocation of RF signals at 100 MHz to 18 GHz or even 66 GHz.

http://www.ieee-hst.org/agenda/tutorials/border_tut_abs.html#border_abs_a

TOPICS INCLUDE

1. Introduction to *Geolocation of RF Signals (GRFS): Principles and Simulations*
2. Requirements for Description of GRFS Systems
3. RF Signals
4. Adaptive Array Algorithms for GRFS Systems
5. Best Recursive Linear Algorithms for Adaptive Array Processing
6. Adaptive Array Beamforming for Interference Mitigation for GRFS Systems

COST/REGISTRATION/LOCATION/PARKING

<http://www.ieee-hst.org/>

INSTRUCTOR

Dr. Ilir Proгри is a leading authority in Geolocation/GPS/GNSS/Wireless Communications in all aspects of signal specifications, simulation, software development, and implementation. Dr. Ilir Proгри is currently the President and CEO of Giffet Inc. For more information please visit www.giffet.com.

Proгри, I., *Geolocation of RF Signals—Principles and Simulations*, 1st ed., New York, NY: Springer Science and Business Media, LLC, 330 pp., Jan. 2011 [Online <http://www.springer.com/engineering/electronics/book/978-1-4419-7951-3>].