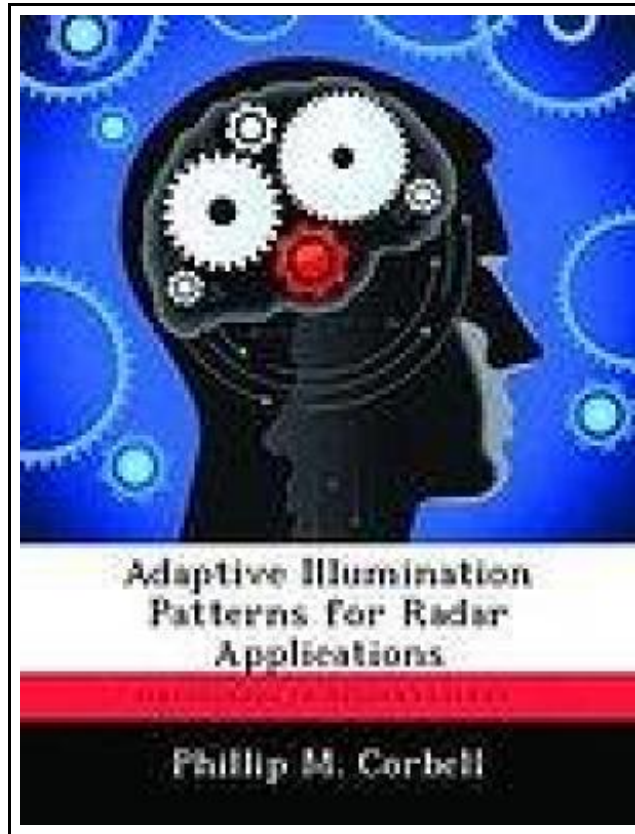


Adaptive Illumination Patterns for Radar Applications



Filesize: 5.62 MB

Reviews

The publication is fantastic and great. It can be rally exciting throgh reading period of time. I am just very happy to inform you that this is the greatest publication i actually have read in my very own daily life and could be he very best ebook for at any time.

(Prof. Alvis Wuckert)

ADAPTIVE ILLUMINATION PATTERNS FOR RADAR APPLICATIONS



To save **Adaptive Illumination Patterns for Radar Applications** PDF, you should click the button below and save the file or have accessibility to additional information which might be have conjunction with ADAPTIVE ILLUMINATION PATTERNS FOR RADAR APPLICATIONS ebook.

Biblioscholar Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 246x189x10 mm. This item is printed on demand - Print on Demand Neuware - Adaptive transmit architectures are envisioned as dominating the radar research of the next century, and are key components of the Fully Adaptive Radar (FAR) paradigm. The fundamental FAR goal involves full exploitation of the joint, synergistic adaptivity of the radar's transmitter and receiver. While phased array receive processing techniques jointly adapt over spatial and temporal Degrees-of-Freedom (DOF), little work has been done to exploit the same DOF available during the radar's transmit illumination cycle. This research introduces Adaptive Illumination Patterns (AIP) as a means for exploiting the previously untapped transmit DOF made available by modern Active Electronically Steered Arrays (AESAs). A fundamental challenge to effective airborne radar surveillance lies in suppressing signal dependent interference, i.e., clutter responses which are inherently created and shaped by the illumination pattern. This research investigates ways to mitigate clutter interference effects by adapting the illumination pattern on transmit. Two types of illumination pattern adaptivity were explored. Space time 'beamforming' on transmit has been demonstrated by allowing the antenna illumination pattern (spatial filter) to vary on a pulse-by-pulse (temporal) basis, a technique described as Space Time Illumination Patterns (STIP). Using clairvoyant knowledge, STIP demonstrates the ability to remove sidelobe clutter at user specified Doppler frequencies, resulting in optimum receiver performance using a non-adaptive receive processor. 170 pp. Englisch.



[Read Adaptive Illumination Patterns for Radar Applications Online](#)



[Download PDF Adaptive Illumination Patterns for Radar Applications](#)

Other PDFs



[PDF] Psychologisches Testverfahren

Follow the web link listed below to download "Psychologisches Testverfahren" file.

[Download PDF »](#)



[PDF] Programming in D

Follow the web link listed below to download "Programming in D" file.

[Download PDF »](#)



[PDF] Memoirs of Robert Cary, Earl of Monmouth

Follow the web link listed below to download "Memoirs of Robert Cary, Earl of Monmouth" file.

[Download PDF »](#)



[PDF] Aeschylus

Follow the web link listed below to download "Aeschylus" file.

[Download PDF »](#)



[PDF] Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird

Follow the web link listed below to download "Tinga Tinga Tales: Why Lion Roars - Read it Yourself with Ladybird" file.

[Download PDF »](#)



[PDF] Adobe Indesign CS/Cs2 Breakthroughs

Follow the web link listed below to download "Adobe Indesign CS/Cs2 Breakthroughs" file.

[Download PDF »](#)