
ELECTROMAGNETIC WAVES
PIERB 70

Progress

In

Electromagnetics

Research B

© 2016 EMW Publishing. All rights reserved.

No part of this publication may be reproduced. Request for permission should be addressed to the Publisher.

All inquiries regarding copyrighted material from this publication, manuscript submission instructions, and subscription orders and price information should be directed to: EMW Publishing, P. O. Box 425517, Kendall Square, Cambridge, Massachusetts 02142, USA.

ELECTROMAGNETIC WAVES
PIERB 70

Progress
In
Electromagnetics
Research B

Chief Editors: Weng Cho Chew and Sailing He

EMW Publishing
Cambridge, Massachusetts, USA

CONTENTS

| | |
|---|-----|
| Diamagneto-Dielectric Anisotropic Wide Angle Impedance Matching Layers for Active Phased Arrays | |
| Fabrizio Silvestri, Lorenzo Cifola, and Giampiero Gerini | 1 |
| Hierarchical Layer-Multiple-Scattering Theory for Metamaterials of Clusters of Nonspherical Particles | |
| Vassilios Yannopapas | 13 |
| Detection of Metal Objects near a Random Rough Surface of Medium at Sounding by Orthogonally Polarized Ultrawideband Pulses | |
| Vladimir I. Koshelev, Andrey A. Petkun, and Vyacheslav M. Tarnovsky | 27 |
| Sliding Spotlight Bistatic Synthetic Aperture Radar Image Formation Algorithm Based on Direct-Path Signal Compensation | |
| Feifei Yan, Wenge Chang, Xiangyang Li, and Qilei Zhan | 41 |
| A New Analytically Regularizing Method for the Analysis of the Scattering by a Hollow Finite-Length PEC Circular Cylinder | |
| Mario Lucido, Marco D. Migliore, and Daniele Pinchera | 55 |
| Cogging Torque and Torque Ripple in a Direct-Drive Interior Permanent Magnet Generator | |
| Rukmi Dutta, Kazi Ahsanullah, and Faz Rahman | 73 |
| Transferometry: A New Tool for Complex Wired Networks Diagnosis | |
| Fabrice Auzanneau | 87 |
| Investigation of Alignment Errors on Multi-Static Microwave Imaging Based on Frequency-Diverse Metamaterial Apertures | |
| Hayrettin Odabasi, Mohammadreza F. Imani, Guy Lipworth, Jonah Gollub, and David R. Smith | 101 |
| Analytical Electromagnetic Analysis of Multi-Phases Cage Rotor Induction Motors in Healthy, Broken Bars and Open Phases Conditions | |
| Lazhar Roubache, Kamel Boughrara, and Rachid Ibtouen | 113 |
| Retrieval of the Frequency-Dependent Effective Permeability and Permittivity of the Inhomogeneous Material in a Layer | |
| Armand Wirgin | 131 |