

ELECTROMAGNETIC WAVES MONOGRAPH SERIES
on Progress In Electromagnetics Research (PIER)

Chief Editor: J. A. Kong, *26-305, MIT, Cambridge, MA 02139, USA*

Production Editors: C. Ao, T. M. Grzegorzcyk

Editors and Reviewer Board:

J. B. Andersen	J. E. Hansen	H. Öttl
F. J. Ares-Pena	R. F. Harrington	J. Pacheco
K. Baganas	A. T. de Hoop	P. Pampaloni
K. G. Balmain	A. Ishimaru	J. B. Pendry
R. Bansal	J. R. James	A. Priou
F. Bardati	R. H. Jansen	T. K. Sarkar
F. Bilotti	J. M. Jin	G. Schettini
A. Biswas	J. T. Johnson	Z. Shen
A. Boag	A. Jordan	A. H. Sihvola
J. C. Bolomey	D. Kaklamani	S. Strom
H. Braunisch	R. W. P. King	V. I. Tatarskii
A. C. Cangellaris	S. G. Kristensson	S. A. Tretyakov
Z. Cendes	Y. Kuga	L. Tsang
D. Censor	R. H. Lang	H. Uberall
W. C. Chew	D. Lesselier	N. K. Uzunoglu
S. Cloude	Y. Leviatan	A. J. Vitanen
R. E. Collin	L. W. Li	J. L. Volakis
C. Elachi	L. Li	K. F. Warnick
A. Z. Elsherbeni	C. Li	E. Wolf
N. Engheta	W. Lin	B. I. Wu
L. B. Felsen	I. V. Lindell	Y. Xie
J. Fikioris	H. Ling	E. Yablonovitch
Y. Fu	J. R. Mautz	A. D. Yaghjian
A. K. Fung	R. K. Moore	W. Y. Yin
F. E. Gardiol	M. A. Morgan	Z. Yu
J. Gavan	J. R. Mosig	X. M. Zhang
T. Grzegorzcyk	B. Munk	W. X. Zhang
A. K. Hamid	D. P. Nyquist	M. R. Zunoubi

MANUSCRIPT SUBMISSIONS

Progress In Electromagnetics Research (PIER) publishes comprehensive articles on all aspects of theory and applications of electromagnetics. Manuscripts submitted to PIER should be original and must not have been submitted simultaneously to other journals. Authors are solely responsible for the factual accuracy of their articles, and all articles are understood to have received clearance(s) for publication.

Manuscripts must be in English and should be numbered beginning with the title page. The first page should contain only the title of the paper, name(s) and address(es) of the authors, and the name and address of the author to whom correspondence and proofs should be sent. Headings and subheadings of the paper (e.g., Abstract, Introduction, Formulation, Methods, Results, Discussion, Conclusion) should be clearly indicated. Detailed mathematical discussions should be placed in an appendix. Tables and figures should have captions. References must contain full title, place and year of publication, and be listed at the end of the article in the reference section. Technical reports, memos, unpublished or to be published articles must not be listed as references, only published work in journals and books may be cited as references.

Submitted manuscript (<http://emacademy.org/pier>) must contain all items in the following checklist:

- (1) Source file(s) of the manuscript;
- (2) A pdf version of the manuscript;
- (3) Source files of all the figures;
- (4) A short biography (5 – 10 lines) for each author.

No action will be taken unless we have all the above listed items on file. All submitted material will not be returned whether the manuscript is accepted or not. Submit all articles to

Chief Editor, Dr. J. A. Kong
Room 26-305, 77 Massachusetts Avenue
Cambridge, MA 02139, USA
Fax: 617-258-8766 Email: jpier@ewt.mit.edu

PIER 1

Progress In Electromagnetics Research

J. A. Kong

PIER 2

Finite Element and Finite Difference Methods in Electromagnetic Scattering

M. A. Morgan

PIER 3

Polarimetric Remote Sensing

J. A. Kong

PIER 4

Progress In Electromagnetics Research

J. A. Kong

PIER 5

Application of Conjugate Gradient Method to Electromagnetics and Signal Analysis

T. K. Sarkar

PIER 6

Dielectric Properties of Heterogeneous Materials

A. Priou

PIER 7

Computational Electromagnetics and Supercomputer Architecture

T. Cwik and J. Patterson

PIER 8

Progress In Electromagnetics Research

J. A. Kong

PIER 9

Bianisotropic and Bi-isotropic Media and Applications

A. Priou

PIER 10

Methods for Modeling and Simulation of Guided-Wave Optoelectronic Devices: Part I: Modes and Couplings

W. Huang

PIER 11

Methods for Modeling and Simulation of Guided-Wave Optoelectronic Devices: Part II: Waves and Interactions

W. Huang

PIER 12

Progress In Electromagnetics Research

J. A. Kong

PIER 13

Electromagnetic Theory and Network Methods

M. Tateiba and L. Tsang

PIER 14

Electromagnetic Scattering by Rough Surfaces and Random Media

M. Tateiba and L. Tsang

PIER 15

Progress In Electromagnetics Research

J. A. Kong

PIER 16

Progress In Electromagnetics Research

J. A. Kong

PIER 17

Progress In Electromagnetics Research

J. A. Kong

PIER 18

Progress In Electromagnetics Research

J. A. Kong

PIER 19

Progress In Electromagnetics Research

J. A. Kong

PIER 20
Progress In Electromagnetics Research
J. A. Kong

PIER 21
Progress In Electromagnetics Research
J. A. Kong

PIER 22
Progress In Electromagnetics Research
J. A. Kong

PIER 23
Progress In Electromagnetics Research
J. A. Kong

PIER 24
Progress In Electromagnetics Research
J. A. Kong

PIER 25
Progress In Electromagnetics Research
J. A. Kong

PIER 26
Progress In Electromagnetics Research
J. A. Kong

PIER 27
Progress In Electromagnetics Research
J. A. Kong

PIER 28
Progress In Electromagnetics Research
J. A. Kong

PIER 29
Progress In Electromagnetics Research
J. A. Kong

PIER 30
Progress In Electromagnetics Research
J. A. Kong

PIER 31

Progress In Electromagnetics Research

J. A. Kong

PIER 32

Progress In Electromagnetics Research

J. A. Kong

PIER 33

Progress In Electromagnetics Research

J. A. Kong

PIER 34

Progress In Electromagnetics Research

J. A. Kong

PIER 35

Progress In Electromagnetics Research

J. A. Kong

PIER 36

Progress In Electromagnetics Research

J. A. Kong

PIER 37

**Polarimetric Microwave Remote Sensing of Wind-Driven
Ocean Environment**

Y. Zhang and T. M. Grzegorzcyk

PIER 38

Progress In Electromagnetics Research

J. A. Kong

PIER 39

Progress In Electromagnetics Research

J. A. Kong

PIER 40

Progress In Electromagnetics Research

J. A. Kong

PIER 41

**Electromagnetic Applications of Photonic Band Gap
Materials and Structures**

A. Priou and T. Itoh

PIER 42
Progress In Electromagnetics Research
J. A. Kong

PIER 43
Progress In Electromagnetics Research
J. A. Kong

PIER 44
Progress In Electromagnetics Research
J. A. Kong

PIER 45
Progress In Electromagnetics Research
J. A. Kong

PIER 46
Progress In Electromagnetics Research
J. A. Kong

PIER 47
Progress In Electromagnetics Research
J. A. Kong

PIER 48
Progress In Electromagnetics Research
J. A. Kong

PIER 49
Progress In Electromagnetics Research
J. A. Kong

PIER 50
Progress In Electromagnetics Research
J. A. Kong