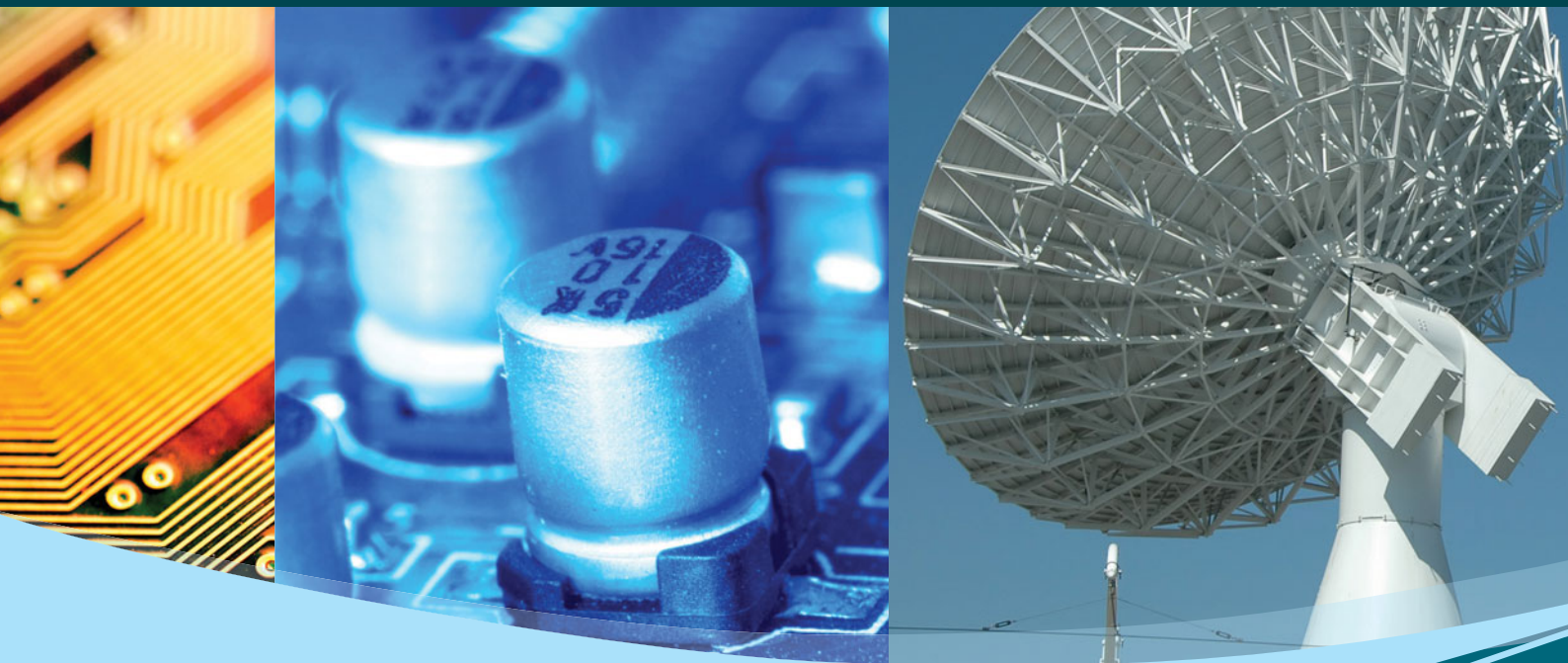


INTERNATIONAL JOURNAL OF
**MICROWAVE
AND WIRELESS
TECHNOLOGIES**

journals.cambridge.org/mrf



EuMA

**CAMBRIDGE
UNIVERSITY PRESS**

INTERNATIONAL JOURNAL OF MICROWAVE AND WIRELESS TECHNOLOGIES

EDITOR

Raymond Quéré, XLIM Université de Limoges, France.
Email: ijmwt@brive.unilim.fr

EDITORIAL BOARD

T. Brazil, University College of Dublin
J. L. Cazaux, Thales Alenia Space
P. Ferrari, IMEP Grenoble
G. Galati, Università di Tor Vergata Roma
T. Itoh, University of California Los Angeles
S. K. Koul, Indian Institute of Technology Delhi
K. S. Kulpa, Warsaw University of technology
A. A. Lisboa de Souza, Universtade Federal de Pernambuco
A. Madjar, Temple University Philadelphia
C. Meliani, Ferdinand Braun Institute Berlin
S. Nighthingale, Cobham
J. Papapolymerou, Georgia Tech
L. Perregriani, University of Pavia
R. Quay, Fraunhofer Institute Freiburg
F. Schindler, RFMD
D. Schreurs, KU Leuven
R. Sorrentino, University of Perugia
A. Suarez, Universidad de Cantabria
D. Vanhoenacker-Janvier, UC Louvain
H. Wang, NTU
R. Weigel, University of Erlangen
F. Yanovsky, National Aviation University
A. Yarovoy, TU Delft
M. Yu, COM DEV & University of Waterloo

Scope of the journal

International Journal of Microwave and Wireless Technologies is interdisciplinary and application oriented, providing a platform for the microwave industry. Subjects covered include: applied electromagnetic field theory, components, analogue and mixed-signal circuits, systems, optical-microwave interactions, electromagnetic compatibility, industrial applications, biological effects and medical applications.

Submission of Manuscripts

All manuscripts should be submitted online at <http://mc.manuscriptcentral.com/mrf>. Please consult the instructions for authors at <http://journals.cambridge.org/MRF>

Subscriptions

International Journal of Microwave and Wireless Technologies (ISSN 1759-0787) is published six times a year in February, April, June, August, October and December. The subscription price (excluding VAT) of Volume 3 (2011) (which includes postage by air, plus electronic access) is £478 net (US \$910 in the USA, Canada and Mexico) for institutions; the electronic only price for institutional subscribers is £365 net (US \$696 in the USA, Canada and Mexico). Members of the European Microwave Association receive free online access to the Journal, and may order print subscriptions at a reduced rate for their personal use only. Single parts are £116 (US \$221 in the USA, Canada and Mexico) plus postage. Orders, which must be accompanied by payment, may be sent to a bookseller, subscription agent or direct to the publisher: Cambridge University Press, The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, UK; or in the USA, Canada and Mexico: Cambridge University Press, Journals Fulfillment Department, 100 Brook Hill Drive, West Nyack, New York 10994-2133. EU subscribers (outside the UK) who are not registered for VAT should add VAT at their country's rate. VAT registered subscribers should provide their VAT registration number. Japanese prices for institutions are available from Kinokuniya Company Ltd, P.O. Box 55, Chitose, Tokyo 156, Japan. Copies of the journal for subscribers in the USA, Canada and Mexico are sent by air to New York to arrive with minimum delay. Periodicals postage paid at New York, NY, and at additional mailing offices. POSTMASTER: send address changes in the USA, Canada and Mexico to: *International Journal of Microwave and Wireless Technologies*, Cambridge University Press, 100 Brook Hill Drive, West Nyack, New York 10994-2133. Claims for missing issues should be made immediately on receipt of the subsequent issue.

Advertising

For all parts of the world except USA, Canada and Mexico to Journals Advertising: ad_sales@cambridge.org

Address enquiries in the USA, Mexico and Canada only to: journals_advertising@cup.org

Copying

This journal is registered with the Copyright Clearance Center, 222 Rosewood Drive, Danvers, MA 01923, USA. Organizations in the USA who are also registered with C.C.C. may therefore copy material (beyond the limits permitted by sections 107 and 108 of U.S. Copyright law) subject to promotional or commercial purposes. Code 0266-4674/2011 \$16.00. *ISI Tear Sheet Service*, 3501 Market Street, Philadelphia, PA 19104, USA, is authorized to supply single copies of separate articles for private use only. Organizations authorized by the Copyright Licensing Agency may also copy material subject to the usual conditions. For all other use, permission should be sought from Cambridge or the American Branch of Cambridge University Press.

Internet Access

This journal is included in the Cambridge Journals Online service and can be found at journals.cambridge.org/MRF. For further information on other Press titles access <http://www.cambridge.org>

© Cambridge University Press and the European Microwave Association 2011
Cambridge University Press The Edinburgh Building, Shaftesbury Road, Cambridge CB2 8RU, United Kingdom
32 Avenue of the Americas, New York, NY 10013-2473 USA
477 Williamstown Road, Port Melbourne, VIC 3207, Australia
Ruiz de Alarcón 13, 28014 Madrid, Spain
Dock House, The Waterfront, Cape Town 8001, South Africa

Printed by Latimer Trend, Plymouth, UK

This journal issue has been printed on FSC-certified paper and cover board. FSC is an independent, non-governmental, not-for-profit organization established to promote the responsible management of the world's forests. Please see www.fsc.org for information.