
**Reporte Global de Citas al Trabajo de Investigación del
Dr. José Ernesto Rayas Sánchez**

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1. Listado de publicaciones citadas

1.1. Artículos publicados en revistas científicas indexadas con riguroso arbitraje internacional

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- [C104] R. Loera-Díaz and J. E. Rayas-Sánchez, "An objective function formulation for circuit parameter extraction based on the Kullback-Leibler distance," in *IEEE MTT-S Int. Microwave Symp. Dig.*, Los Angeles, CA, Aug. 2020, pp. 80-82. (ISSN: 0149-645X; ISSN-e: 2576-7216; ISBN: 978-1-7281-6816-6; e-ISBN: 978-1-7281-6815-9; INSPEC: 20054460; DOI: 10.1109/IMS30576.2020.9224002)
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<https://www.worldscientific.com/worldscibooks/10.1142/q0317> (book)

https://www.worldscientific.com/doi/10.1142/9781800610750_0005 (chapter)

Título del libro: Surrogate Modeling for High-Frequency Design: Recent Advances (Editors: Slawomir Koziel and Anna Pietrenko-Dabrowska)

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Autores del capítulo: Francisco Elías Rangel-Patiño and José Ernesto Rayas-Sánchez

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Documento probatorio: Versión electrónica.

- [BC3] J. E. Rayas-Sánchez, “Artificial neural networks and space mapping for EM-based modeling and design of microwave circuits,” in *Surrogate-Based Modeling and Optimization: Applications in Engineering*, S. Koziel and L. Leifsson, Ed., New York, NY: Springer, 2013, ch. 7, pp. 147-169.

<http://www.springer.com/us/book/9781461475507> (book)

https://link.springer.com/chapter/10.1007/978-1-4614-7551-4_7 (chapter)

DOI 10.1007/978-1-4614-7551-4_7.

Título del libro: Surrogate-Based Modeling and Optimization: Applications in Engineering (Editors: Slawomir Koziel and Leifur Leifsson)

Título del capítulo: Artificial Neural Networks and Space Mapping for EM-Based Modeling and Design of Microwave Circuits

Autores del capítulo: José Ernesto Rayas Sánchez

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Editorial: Springer, New York
Edición: 2013
Páginas del libro: 412
Objetivo básico: Investigación y/o docencia a nivel posgrado.
Documento probatorio: Versión electrónica.

[BC2] J. E. Rayas-Sánchez, “Neural space mapping methods for EM-based yield estimation,” in *Simulation-Driven Design Optimization and Modeling for Microwave Engineering*, S. Koziel, X-S Yang, and Q. J. Zhang, Ed., London, England: Imperial College Press, 2013, ch. 11, pp. 271-310.
<http://www.worldscientific.com/worldscibooks/10.1142/p860> (book)
https://www.worldscientific.com/doi/abs/10.1142/9781848169173_0011 (chapter)
DOI: 10.1142/9781848169173_0011

Título del libro: Simulation-Driven Design Optimization and Modeling for Microwave Engineering (Editors: Slawomir Koziel, Xin-She Yang and Qi-Jun Zhang)
Título del capítulo: Neural Space Mapping Methods for EM-Based Yield Estimation
Autores del capítulo: José Ernesto Rayas Sánchez
Estado actual: Publicado (electrónicamente: Enero 2013; en papel: Junio 2013)
ISBN: 978-1-84816-916-6
País: Inglaterra
Editorial: *Imperial College Press*, Londres, Inglaterra
Edición: 2013
Páginas del libro: 501
Objetivo básico: Investigación y/o docencia a nivel posgrado.
Documento probatorio: Versión electrónica y ejemplar físico del libro.

[BC1] J. E. Rayas-Sánchez, “Electromagnetics-based design using artificial neural networks,” in *Special Topics of EMC at Chip and System Levels*, D. Lupi, Ed., Buenos Aires, Argentina: Dunken, Programa CYTED (Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo), 2006, ch. 3, pp. 75-129.

Título del libro: Special Topics of EMC at Chip and System Levels (Editor: Daniel Lupi)
Título del capítulo: Electromagnetics-Based Design Using Artificial Neural Networks
Autores del capítulo: José Ernesto Rayas Sánchez
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Programa CYTED (Programa Iberoamericano de Ciencia y Tecnología para el Desarrollo)
 Edición: Julio 2006
 Páginas: 133
 Objetivo básico: Investigación y/o docencia a nivel posgrado.
 Documento probatorio: Ejemplares del libro.

2. Índices cuantitativos del impacto de la investigación del Dr. Rayas

Los principales índices cuantitativos del impacto de las publicaciones del Dr. Rayas a la fecha son como sigue¹:

Query: rayas-sanchez
 Query date: 05/June/2023
 Papers: 204
 Citations: 2602
 Cites/year: 104.08
 Cites/paper: 12.75
 Authors/paper: 2.53
 h-index: 22
 g-index: 48

3. Artículos científicos como autor principal más altamente citados

Los 10 artículos que han recibido mayor cantidad de citas, en los que el Dr. Rayas es el autor principal, son los siguientes¹:

Número de citas	Referencia
413	[R9] J. E. Rayas-Sánchez, "EM-based optimization of microwave circuits using artificial neural networks: the state of the art," <i>IEEE Trans. Microwave Theory Techn.</i> , vol. 52, no. 1, pp. 420-435, Jan. 2004.
267	[R1] J. W. Bandler, M. A. Ismail, J. E. Rayas-Sánchez, and Q. J. Zhang, "Neuromodeling of microwave circuits exploiting space mapping technology," <i>IEEE Trans. Microwave Theory Techn.</i> , vol. 47, no. 12, pp. 2417-2427, Dec. 1999.
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148	[R2] M. H. Bakr, J. W. Bandler, M. A. Ismail, J. E. Rayas-Sánchez, and Q. J. Zhang, "Neural space mapping optimization for EM-based design," <i>IEEE Trans. Microwave Theory Techn.</i> , vol. 48, no. 12, pp. 2307-2315, Dec. 2000.
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¹ Tarma Software Research Pty Ltd (Copyright © 1990-2019), based on Google Scholar (Publish or Perish 6.46.6370.7005).

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50	[R8] J. W. Bandler, M. A. Ismail, J. E. Rayas-Sánchez, and Q. J. Zhang, “Neural inverse space mapping (NISM) for EM-based microwave design,” <i>Int. J. RF and Microwave CAE</i> , vol. 13, no. 2, pp. 136-147, Mar. 2003.
43	[R30] J. E. Rayas-Sánchez, S. Koziel, and J. W. Bandler, “Advanced RF and microwave design optimization: a journey and a vision of future trends,” <i>IEEE J. of Microwaves</i> , vol. 1, no. 1, pp. 481-493, Jan. 2021.

El Dr. Rayas es el autor principal de los artículos [R1], [R2], [R6] y [R8] de la tabla anterior, como se hace constar en la constancia del Prof. John W. Bandler, de la Universidad McMaster, Canadá (incluida en la siguiente sección de este documento), ya que en esos artículos los autores aparecen en estricto orden alfabético

4. Constancia del Prof. J. W. Bandler, de la U. McMaster, Canadá



SIMULATION OPTIMIZATION SYSTEMS Research Laboratory

July 3, 2001

Sistema Nacional de Investigadores (SNI)
SEP-CONACYT
México

This will confirm that **José E. Rayas-Sánchez** is the principal author of the following papers.

Work Published

- [1] J.W. Bandler, J.E. Rayas-Sánchez and Q.J. Zhang, "Space mapping based neuromodeling of high frequency circuits," *Micronet Annual Workshop* (Ottawa, ON), 1999, pp. 122-123.
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Work Accepted

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This will confirm that **José E. Rayas-Sánchez** collaborated in the following papers.

Work Published

- [1] J.W. Bandler, N. Georgieva, M.A. Ismail, J.E. Rayas-Sánchez and Q.J. Zhang, "A generalized space mapping tableau approach to device modeling," *European Microwave Conf.* (Munich, Germany), vol. 3, 1999, pp. 231-234.
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Work Submitted

- [1] J.W. Bandler, M.A. Ismail and J.E. Rayas-Sánchez, "Expanded space mapping design framework exploiting preassigned parameters," *IEEE Trans. Microwave Theory Tech.*, December 2001.



John W. Bandler
Professor Emeritus

5. Gráfico de citas por año de las últimas dos décadas (*Google Scholar*)



(Hasta junio 5, 2023)

Fuente:

https://scholar.google.com/citations?user=YhsODCoAAAAJ&hl=es#d=gsc_md_hist&t=1686015172080

6. Apéndice A: Reporte de *Google Scholar* sobre los 100 trabajos más citados



Jose Ernesto Rayas-Sanchez

ITESO
 - The Jesuit University of Guadalajara
 RF
 microwaves
 space mapping
 surrogate modeling
 artificial neural networks

CREAR MI PROPIO PERFIL

	Total	Desde 2018
Citas	2590	1130
Índice h	22	16
Índice i10	41	25

0 artículos 1 artículo

no disponibles disponibles

Basado en requisitos de financiación

TÍTULO	CITADO POR	AÑO
EM-based optimization of microwave circuits using artificial neural networks: The state-of-the-art JE Rayas-Sánchez IEEE Transactions on Microwave Theory and Techniques 52 (1), 420-435	413	2004
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7. Apéndice B: Reporte de citas de *Web of Science* (Citas Tipo A)



Jose Ernesto Rayas-Sanchez

<https://www.webofscience.com/wos/author/rid/F-8836-2010>

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Publication Metrics

For manuscripts published from date range January 1998 - May 2023

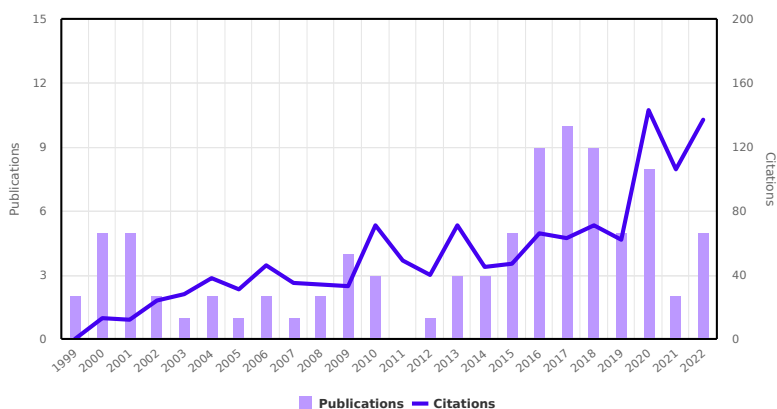
16	1281
H-index	Sum of Times Cited
103	90
Publications	Web of Science Core Collection

For all time

16	1281
H-index	Sum of Times Cited
105	90
Publications	Web of Science Core Collection

Publication Impact Over Time

Times Cited and Publications Over Time



Publishing Summary

For manuscripts published from date range January 1998 - May 2023

(22) IEEE MTT-S International Microwave Sy...	(10) IEEE Transactions on Microwave Theory...
(7) IEEE Microwave Magazine	(7) IEEE MTT-S Latin America Microwave Con...
(6) International Journal of RF and Microwa...	(5) IEEE Latin American Symposium on Circ...
(4) IEEE Conference on Electrical Performan...	(4) 46TH EUROPEAN MICROWAVE CONFERE...
(3) IEEE International Midwest Symposium o...	(3) International Caribbean Conference on D...
(3) IEEE MTT-S International Conference on ...	(2) European Microwave Conference
(2) IEEE Transactions on Computer-Aided De...	(2) IEEE Journal of Microwaves
(2) IEEE Transactions on Electromagnetic Co...	(2) Ieee Mtt-s Latin America Microwave Conf...
(1) Microwave and Optical Technology Letters	(1) International Journal of Numerical Mode...
(1) Electronics, Robotics and Automotive Me...	(1) International Microwave Workshop Serie...
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(1) Microelectronics Reliability	(1) IEEE Transactions on Circuits and System...
(1) 16TH LATIN-AMERICAN TEST SYMPOSIU...	(1) SBMO/IEEE MTT-S International Microwa...
(1) Simulation-driven Design Optimization a...	(1) IEEE Transactions on Emerging Topics in ...
(1) International Conference on Synthesis, M...	(1) International Microwave Workshop Serie...
(1) IEEE International Test Conference (TC)	(1) IEEE Latin-American Test Symposium (LA...
(1) Integration, the VLSI Journal	(1) 17TH IEEE WORKSHOP ON SIGNAL AND P...
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<p>EM Parametric Study of Length Matching Elements Exploiting an ANSYS HFSS Matlab-Python Driver Published: Dec 2018 in IEEE MTT-S Latin America Microwave Conference (LAMC) DOI: 10.1109/LAMC.2018.8699050 Web of Science accession number: WOS:000518835200040</p>	0
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<p>A linear regression inverse space mapping algorithm for EM-based design optimization of microwave circuits</p> <p>Published: Jun 2011 in IEEE MTT-S International Microwave Symposium</p> <p>DOI: 10.1109/MWSYM.2011.5972954</p>	Not indexed in the Web of Science
<p>Design optimization of microstrip lines with via fences through surrogate modeling based on polynomial functional interpolants</p> <p>Published: Oct 2010 in IEEE Conference on Electrical Performance of Electronic Packaging and Systems (EPEPS)</p> <p>DOI: 10.1109/EPEPS.2010.5642562</p>	Not indexed in the Web of Science
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2 rounds from Feb 2019 to Jul 2019 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Apr 2019 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Mar 2019 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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2 rounds from Mar 2018 to Aug 2018 for IEEE Transactions on Antennas and Propagation

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Reviewed: Jul 2018 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Jul 2018 for IEEE Microwave and Wireless Components Letters

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Reviewed: May 2018 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from Jul 2017 to Feb 2018 for IEEE Microwave and Wireless Components Letters

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Reviewed: Nov 2017 for IEEE Transactions on Antennas and Propagation

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Reviewed: Jul 2017 for IEEE Transactions on Emerging Topics in Computing

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Reviewed: Jun 2017 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Jul 2016 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Sep 2015 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Apr 2015 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Jan 2010 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: May 2017 for International Journal of RF and Microwave Computer-Aided Engineering

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Reviewed: Apr 2017 for IEEE Antennas and Wireless Propagation Letters

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Reviewed: Mar 2017 for IET Microwaves, Antennas and Propagation

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Reviewed: Mar 2017 for IEEE Microwave and Wireless Components Letters

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Reviewed: Jan 2017 for IET Microwaves, Antennas and Propagation

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Reviewed: Jan 2017 for IEEE Transactions on Emerging Topics in Computing

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2 rounds from Sep 2016 to Nov 2016 for Structural and Multidisciplinary Optimization

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3 rounds from Feb 2016 to Sep 2016 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Sep 2016 for Structural and Multidisciplinary Optimization

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Reviewed: Sep 2016 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Jul 2016 for IEEE Microwave and Wireless Components Letters

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Reviewed: Jun 2016 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Feb 2016 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Feb 2016 for International Journal of RF and Microwave Computer-Aided Engineering

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2 rounds from Dec 2015 to Feb 2016 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Feb 2016 for IEEE Microwave and Wireless Components Letters

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Reviewed: Dec 2015 for IEEE Transactions on Microwave Theory and Techniques

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5 rounds from Mar 2015 to Oct 2015 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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2 rounds from Jul 2015 to Sep 2015 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from May 2015 to Aug 2015 for IEEE Transactions on Microwave Theory and Techniques

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4 rounds from Apr 2015 to Aug 2015 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Aug 2015 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from May 2015 to Aug 2015 for IEEE Microwave and Wireless Components Letters

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2 rounds from May 2015 to Jun 2015 for International Journal of Numerical Modelling: Electronic Networks, Devices and Fields

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Reviewed: Feb 2015 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from Dec 2014 to Dec 2014 for IET Microwaves, Antennas and Propagation

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Reviewed: Jul 2014 for IEEE Microwave and Wireless Components Letters

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Reviewed: Apr 2014 for IEEE Microwave and Wireless Components Letters

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Reviewed: Mar 2014 for IEEE International Black Sea Conference on Communications and Networking

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2 rounds from Jan 2014 to Mar 2014 for IEEE Microwave and Wireless Components Letters

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Reviewed: Mar 2014 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Dec 2013 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Nov 2013 for IEEE Microwave and Wireless Components Letters

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Reviewed: May 2013 for IEEE Microwave and Wireless Components Letters

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Reviewed: Dec 2012 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Nov 2012 for IEEE Transactions on Semiconductor Manufacturing

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Reviewed: Oct 2012 for IET Science, Measurement and Technology

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Reviewed: Sep 2012 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Jul 2012 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Apr 2012 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from Jul 2011 to Sep 2011 for IET Science, Measurement and Technology

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Reviewed: Jun 2011 for IEEE Transactions on Microwave Theory and Techniques

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2 rounds from Oct 2010 to Mar 2011 for IEEE Microwave and Wireless Components Letters

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Reviewed: Mar 2011 for Optimization and Engineering

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Reviewed: Jan 2011 for International Journal of Electronics

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Reviewed: Nov 2010 for IEEE Transactions on Antennas and Propagation

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Reviewed: Sep 2010 for IEEE International RF and Microwave Conference

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Reviewed: Aug 2010 for IEEE Microwave and Wireless Components Letters

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2 rounds from May 2010 to Aug 2010 for IEEE Microwave and Wireless Components Letters

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Reviewed: Aug 2010 for IEEE Transactions on Microwave Theory and Techniques

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Reviewed: Jul 2010 for Progress in Electromagnetics Research

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Reviewed: May 2010 for International Journal of RF and Microwave Computer-Aided Engineering

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Reviewed: Mar 2010 for International Journal of RF and Microwave Computer-Aided Engineering

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Reviewed: Feb 2010 for IET Microwaves, Antennas and Propagation
