

## Publications of S. Maci- Book Chapters

1. E. Martini, S. Maci, A. Yaghjian “Cloaking in terms of non-radiating cancelling currents” book Chapter in *Selected topics in metamaterials and photonic crystals*, Edited by V. Galdi to be published by World Scientific, 2011
2. A. Yaghjian, S. Maci, E. Martini “Electromagnetic cloaks and concentrators” book Chapter in *Handbook of Artificial Materials Vol I: Phenomena and Theory*, Edited by: F. Capolino, October 2009. ISBN: 978-1-4200536-2-2010
3. S. Maci, A. Cucini - 'FSS-based EBG surfaces' book Chapter, in *Electromagnetic metamaterial: physics and engineering explorations*, Edited by R. Ziolkowski and N. Engheta, Wiley Interscience, USA, pp 57-77, 2006. ISBN: 9780471761020
4. A. Cucini, S. Maci, ‘Edge effects in large periodic arrays of microstrip dipoles’ book Chapter in *Periodic structures*, Edito da M. Bozzi e L. Peregrini, Research Signpost, ISBN 81-308-0032-2, pp 57-77, 2006
5. G. Vecchi, M. Orefice, S. Maci, A. Neto - 'Physical-based methods for matrix compression in large array problems' (pubblicazione su volume collettaneo, 2004) , 187 - 196 book Chapter in *Fields, Networks, Computational Methods and Systems in Modern Electrodynamics, A Tribute to Leopold B. Felsen* (ISBN 3-540-3-540-23929-4) Springer Proceedings in Physics: Springer-Verlag, Berlin Heidelberg, 2004
6. M. Albani, F. Capolino, A. Cucini, L. B. Felsen, S. Maci, F. Mariottini, E. Martini, A. Polemi, R. Tiberio, A. Toccafondi - 'The Truncated Floquet Wave Diffraction Theory for Planar Phased Arrays: an Overview', 75 -93 book Chapter in Vol. 97: *Fields, Networks, Computational Methods, and Systems in Modern Electrodynamics, A Tribute to Leopold B. Felsen* (ISBN 3-540-3-540-23929-4) , Springer Proceedings in Physics: Springer Verlag, Berlin Heidelberg ; a cura di P. Russer, M. Mongiardo, 2004
7. S. Maci, A. Polemi, A. Toccafondi, L. B. Felsen – Chapter 'High-Frequency Green’s Function for an Infinite Periodic Line Array of Phased Electric Dipoles on an Infinite Stratified Grounded Dielectric Slab', pp 89 - 106 93 book Chapter in : *Electromagnetics in a Complex World: Challenges and Perspectives*, Casa Editrice: , Springer Proceedings in Physics Vol. 98:, Heidelberg; 2003
8. G. Vecchi, M. Orefice, S. Maci, A. Freni – Chapter 'Multiscale analysis of large complex arrays', 107-114 Volume: *Electromagnetics in a Complex World: Challenges and Perspectives*, Springer Proceedings in Physics Vol. 98: Springer-Verlag, Berlin Heidelberg, 2003

## Publications of S. Maci- International Journal Papers

1. G. Minatti, F. Caminita, M. Casaletti, S. Maci “Leaky-wave Antennas Based on Spiral Impedance Surfaces” Submitted to IEEE Trans on Antennas Propagat, January 2011
2. A. Polemi, E. Rajo-Iglesias, S. Maci, Analytical Dispersion Characteristic of a Gap-Groove Waveguide” Submitted on IEEE Transaction on Microwave Theory and Techniques, January 2011
3. E. Martini, S. Maci “A closed-form conversion from spherical-wave- to complex-point-source-expansion” Submitted to Radio Science, 2011, January 2011
4. S. Skokic, M. Casaletti, S Maci, , S Sorensen. "Complex Conical Beams for Aperture Field Representations". IEEE Trans on Antennas Propagat, ISSN: 0018-926X, n. 58, February 2011
5. M. Casaletti, S Maci, G. Vecchi. "Generalized Shannon Basis for Flat Faces of Scatterers and Planar Apertures". IEEE Trans on Antennas Propagat, ISSN: 0018-926X, n. 58, February 2011
6. A. Polemi, S. Maci, P.S. Kidal, , (2010). "Dispersion Characteristics of a Metamaterial-Based Parallel-Plate Ridge Gap Waveguide Realized by Bed of Nails". IEEE Trans on Antennas Propagat, ISSN: 0018-926X, Vol. 58, n. 3, 2011
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9. S. Maci, “[A Cloaking Metamaterial Based on an Inhomogeneous Linear Field Transformation](#)”; [IEEE Trans. on Antennas and Propagation](#), Volume: 58 , [Issue: 4](#) Digital Object Identifier: [10.1109/TAP.2010.2041272](#), Publication Year: 2010 , Page(s): 1136 – 1143
10. Mariottini, F.; Albani, M.; Toniolo, E.; Amatori, D.; Maci, S “[Design of a Compact GPS and SDARS Integrated Antenna for Automotive Applications](#)”; [IEEE Antennas and Wireless Propagation Letters](#), Volume: 9 , Digital Object Identifier: [10.1109/LAWP.2010.2049632](#) Page(s): 405 – 408, 2010
11. Caminita, F.; Costanzo, S.; Di Massa, G.; Guarnieri, G.; Maci, S.; Mauriello, G.; Venneri, I. “[Reduction of Patch Antenna Coupling by Using a Compact EBG Formed by Shorted Strips With Interlocked Branch-Stubs](#),” [IEEE Antennas and Wireless Propagation Letters](#), Volume: 8,

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16. E. Martini, O. Breinbjerg, S. Maci 'Reduction of Truncation Errors in Planar Near-Field Aperture Antenna Measurements Using the Gerchberg-Papoulis Algorithm ' IEEE Trans. on Antennas Propagat; Vol 56, n. 11, pp 3485 - 3493 Novembre 2008
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25. S. Maci 'The European School of Antennas: Structure, results and perspectives 'IEEE Antennas and Propagation Magazine, Vol.49, pp 92 – 99, 2007
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