

PUBLICATIONS

1. BOOKS / CHAPTERS

- [B1] S.P. Savaidis, A. Skountzos, "Electromagnetism and Transmission of Electromagnetic Waves", "Synchrones Ekdoseis", Athens, 2010.
- [B2] Chapter "RF Measurements and Characterization of Conductive Textile Materials" in "Electronics and Computing in Textiles" book, bookboon.com (Ventus Publishing APS), ISBN 978-87-403-082-0, 2012.

2 PUBLICATIONS IN INTERNATIONAL JOURNALS

- [J1] M.Vasilopoulou, N.A.Stathopoulos, **S.P. Savaidis**, I. Kostis, G. Papadimitropoulos, D. Davazoglou, "Engineering of the energetic structure of the anode of organic photovoltaic devices utilizing hot-wire deposited transition metaloxide layers" Applied Surface Science, Vol. 350, pp. 25-30, September 2015.
- [J2] N.A. Stathopoulos, **S.P. Savaidis**, A. Botsialas, Z.C. Ioannidis, D.G. Georgiadou, M. Vasilopoulou, G. Pagiatakis, "Reflection and transmission calculations in a multilayer structure with coherent, incoherent, and partially coherent interference, using the transmission line method", Applied Optics, Vol. 54, Issue 6, pp. 1492-1504, February 2015.
- [J3] **S. P. Savaidis**, Z. C. Ioannidis, S. A. Mitilineos and N. A. Stathopoulos, "Design of Waveguide Microwave Pulse Compressors Using Equivalent Circuits," IEEE Transactions on Microwave Theory and Techniques, Vol. 63, No. 1, pp. 125-134, January 2015.
- [J4] Nikolaos Moshonas, Gerasimos K Pagiatakis, Panagiotis Papagiannis, **Stylianos P Savaidis**, Nikolaos A Stathopoulos, "Application of the transmission line method for the study of highly nonlinear multilayer optical structures", Optical Engineering, Vol. 53, No. 11, November, 2014.
- [J5] N.A Stathopoulos, **S.P Savaidis**, H. Simos, M. Rangoussi, P. Kervalishvili, "Simulation and properties of Erbium-Doped Distributed Bragg Reflectors (ED-DBRs) and Fiber Bragg Gratings (ED-FBGs)", Vol. 19, No. 5, October 2013.
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- [J7] M. Vasilopoulou, I. Kostis, A. M. Douva, D. G. Georgiadou, An. Soultati, G. Papadimitropoulos, N. A. Stathopoulos, **S. P. Savaidis**, P. Argitis, D. Davazoglou, "Vapor-deposited hydrogenated and oxygen-deficient molybdenum oxide thin films for application in organic optoelectronics", Surface and Coating Technology, Vol. 230, 15 September 2013.
- [J8] I. Kostis, M. Vasilopoulou, G. Papadimitropoulos, N. Stathopoulos, **S. Savaidis**, D. Davazoglou, "Deposition of undoped and H doped W_{O_x} ($x \leq 3$) films in a hot-wire atomic layer deposition system without the use of tungsten precursors", Journal of Surface Technology, Vol. 230, 15 September 2013.

- [J9] **S.P. Savaidis**, Z.C. Ioannidis, N.A. Stathopoulos, "Hybrid Field/Transmission-Line Model for the Study of Coaxial Corrugated Waveguides" IEEE Microwave Theory and Techniques, Vol. 60, No. 10, October 2012.
- [J10] N. A. Stathopoulos, L. C. Palilis, S. R. Yesayan, **S. P. Savaidis**, M. Vasilopoulou and P. Argitis, "A transmission line model for the optical simulation of multilayer structures and its application for oblique illumination of an organic solar cell with anisotropic extinction coefficient", Journal of Applied Physics, 110, 114506 (2011).
- [J11] **Stylianos P. Savaidis** and Nikolaos I. Miridakis, "Statistical Model of Downlink Power Consumption in Cellular CDMA Networks", Int. J. Wireless & Mobile Networks (IJWMN), vol. 3, no. 4, pp. 46-65, Aug. 2011
- [J12] N.A.Stathopoulos, L.C.Palilis, **S.P.Savaidis**, S.R.Yesayan, M.Vasilopoulou, G.Papadimitro-poulos, D.Davazoglou and P.Argitis 'Optical modeling of hybrid polymer solar cells using a transmission line model and comparison with experimental results' IEEE Journal of Selected Topics in Quantum Electronics, Vol. 16, No. 6, Nov./Dec. 2010.
- [J13] G.D. Tsogkas, J.A. Roumeliotis and **S.P. Savaidis** "Electromagnetic Scattering by an Infinite Elliptic Dielectric Cylinder with Small Eccentricity Using Perturbative Analysis", IEEE Transactions on Antennas and Propagation, Vol. 58, No. 1, January 2010
- [J14] G.D. Tsogkas, J.A. Roumeliotis and **S.P. Savaidis** "Cutoff Wavelengths of Elliptic Metallic Waveguides", IEEE Microwave Theory and Techniques, Vol. 57, No. 10, October 2009.
- [J15] **S. P. Savaidis**, N. A. Stathopoulos, "Simulation of Light Emission from planar multilayer OLEDs, using a transmission line model", IEEE Journal of Quantum Electronics, Vol. 45, No. 9, pp. 1089-1099, September 2009.
- [J16] N.A.Stathopoulos, **S.P.Savaidis**, "Gain calculation and propagation characteristics in single-mode Erbium-Doped Fiber Amplifiers with refractive index nonlinearities", Vol. 281. No 1, pp. 80-89, January 2008.
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- [J24] J.A. Roumeliotis and **S.P. Savaidis**: "Scattering by an infinite Circular Dielectric Cylinder Coating Eccentrically an Elliptic Metallic One", *IEEE Transactions on Antennas and Propagation*, vol. 44, No. 5, pp. 757-763, May 1996.
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3. INTERNATIONAL CONFERENCES

- [C1] **S. P. Savaidis**, S. A. Mitilineos, N. A. Stathopoulos, Z. C. Ioannidis, "Modeling of a Waveguide Microwave Pulse Compression System using Transmission Line Theory and Equivalent Circuits", **2015 IEEE International Conference on Plasma Science**, Belek, Turkey May 24-28, 2015.
- [C2] N.A.Stathopoulos, **S.P.Savaidis**, S.Vasiliadis, E.Voglis "Thickness optimization of a single heterojunction fibre organic photovoltaic using a simulation technique" **47th IFKT Congress**, Izmir/Turkey September 25 -26, 2014.
- [C3] M. Vasilopoulou, N.A.Stathopoulos, **S.Savaidis**, D.Davazoglou "Study of Intermediate Bands of Amorphous Oxygen-deficient and Hydrogen-Doped Molybdenum and Tungsten Oxide Films and Application in Multicolor Organic Light Emitting Diodes" SATF2014: Science & Applications of Thin Films, Conference & Exhibition, 15-19 September 2014, Izmir, Turkey.
- [C4] Z. C. Ioannidis, **S. P. Savaidis**, S. A. Mitilineos, C. Tsitouri, N. A. Stathopoulos "Equivalent Circuit/Transmission Line Model of Microwave Pulse Compression Cavities", **2014 International Symposium on Electromagnetic Compatibility (EMC Europe)**, Gothenburg, 1-4 September, 2014.
- [C5] M. Vasilopoulou, A. Douvas, D. Georgiadou, N. Stathopoulos, **S. Savaidis**, D. Davazoglou, L. C. Palilis and P. Argitis "Large Work Function Shift of Organic Semiconductors and Enhanced Interfacial Electron Transport in Organic Light Emitting Diodes Enabled by Porphyrin Interfacial Self-Assembly" **ICOE 2014 -10th International Conference on Organic Electronics**, Modena, Italy, June 11-13, 2014.
- [C6] Nikolaos Moshonas; Gerasimos K. Pagiatakis; Panagiotis Papagiannis; **Stylios P. Savaidis**; Nikolaos A. Stathopoulos: "Simulation and properties of highly nonlinear multilayer optical structures using the transmission line method", **Optical Modelling and Design Brussels**; Belgium; 15 -17 April 2014 / Proceedings of SPIE -The International Society for Optical Engineering.

- [C7] Rigas, E., Correi, R.b, Stathopoulos, N.A., **Savaidis, S.P.**, James, S.W. , Bhattacharyya, D., Kirby, P.B., Tatam, R.P.: "Evaluation of the optical switching characteristics of erbium-doped fibres for the development of a fibre Bragg grating sensor interrogator", **23rd International Conference on Optical Fibre Sensors**; Santander; Spain; 2 -6 June 2014 / Proceedings of SPIE -The International Society for Optical Engineering.
- [C8] **S. P. Savaidis**, Z. C. Ioannidis, N. A. Stathopoulos, S. A. Mitilineos, C. Tsitouri, "Transmission line modeling of microwave pulse compression systems", **The International IEEE Conference on Microwaves, Communications, Antennas and Electronic Systems**, Tel Aviv, 21-23 October 2013.
- [C9] **S.P. Savaidis**, N.A. Stathopoulos and M. Vasilopoulou: "A Transmission Line Model (TLM) for the calculation of the external quantum efficiency of an Organic Photovoltaic (OPV) with partial coherent interference", **39th International Conference on Micro and Nano Engineering**, 17 September 2013, London, UK..
- [C10]N.A. Stathopoulos, **S.P. Savaidis**, A. Botsialas, M. Vasilopoulou: "Thin film thickness measurement technique, using the spectral reflectance and transmittance method, based on a transmission line model", **39th International Conference on Micro and Nano Engineering**, 17 September 2013, London, UK.
- [C11]S. Vasiliadis, N. Stathopoulos, K. Prekas, **S. Savaidis**: "Behaviour of the conductive yarns and fabrics in high frequencies", **ITMC 2011 International Conference**, Casablanca, 2011
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