


CURRICULUM VITAE

1. HELLENIC NAVAL ACADEMY

SECTOR	Combat Systems, Naval Operations, Sea Studies, Navigation, Electronics & Telecommunications	
RESEARCH INTEREST / TEACHING COURSES	Microwave Integrated Circuits and High Frequencies Electronics / Electronics I and Electronics II	
ACADEMIC POSITION	Professor	
COOPERATION START TIME WITH HNA	2001	

2. PERSONAL INFORMATION

NAME	Evangelia
SURNAME	Karagianni
RESEARCH INTERESTS / EXPERIENCE	<p>Mrs Karagianni has employed in Public Power Corporation Hellas and Omega Company, Moscow. She has also worked in Intracom Hellas. She has taught Electronics and Computers in Hellenic Army Academy from 1998 to 2008. She teaches Monolithic Microwave Circuits as Associate Lecturer at the Microelectronics M.Sc. Program of the National and Kapodistrian University of Athens, Informatics and Telecommunications Department, since 2000. She has also worked as researcher in the Microwaves and Fiber Optics Laboratory, Institute of Communications and Computer Systems, National Technical University of Athens for more than 15 years. Dr. Karagianni is cooperating with Hellenic Navy and has cooperated with Hellenic Air Force Academy.</p> <p>Her research interests are related with Microwave Integrated Circuits, RF Navy Electronics, Telecommunication systems, Telecommunication in Navigation, Optical Communication Systems, Low Noise Amplifiers.</p> <p>Ass. Prof. Evangelia Karagianni acts as a reviewer in many Scientific Journals and Conferences. She is also Chairman in committees evaluating projects for public sector for the Information Society S.A. She is a member of Technical Chamber of Greece and she has been member of the Hellenic Annex of European Space Agency.</p>

3. QUALIFICATIONS

UNIVERSITY, DEGREES	Evangelia A. Karagianni received her B.Sc. in 1994 and the Ph.D. in 2000 degrees from the Department of Electrical and Computer Engineering, National Technical University of Athens, Greece.
ACADEMIC PUBLICATIONS	She has authored and co-authored more than sixty (60) international scientific journal and conference papers and seven books (in Greek) related to MMIC and RF electronics. There are more than four hundred (400) citations in her scientific work, which is presented below.

- 01_J01. E.A. Karagianni, E.P. Apostolopoulou, I.M. Prousalidis, I.K. Gyparis, A.D. Tsigopoulos, C.N. Vazouras, Ai.E. Tsiakla "[Pre/Post Assessments Analysis in Training Electro-Technical Seafarers Experts](#)", Journal of Shipping and Ocean Engineering, Vol. 9, No 1, pp. 14-29, Jan.-Mar. 2019
- 02_J02. Kasapoglu, G.B.*; Karagianni, E.A.; Fafalios, M.E.; Koukos, I.A., "[Coefficients Calculation in Pascal Approximation for Passive Filter Design](#)". Computation 2018, 6, 18.
- 03_J03. Vazouras, C.N; Kasapoglu, G.B.*; Karagianni, E.A.; Uzunoglu, N.K. "[A Microwave Reflectometry Technique for Profiling the Dielectric-Conductivity Properties of the Hagia Sophia Globe](#)". Computation 2018, 6, 12.
- 04_J04. E.A. Karagianni, C.N. Vazouras, E.H. Papageorgiou, A.D. Sarantopoulos, H.E. Nistazakis, "[Maximum Rain-Rate Evaluations in Aegean Archipelagos Hellas for Rain Attenuation Modeling at Microwave Frequencies](#)", International Journal on Marine Navigation and Safety of Sea Transportation, Volume 10, Number 1, March 2016.
- 05_J05. E.A. Karagianni, "[Electromagnetic Waves under Sea: Bow-Tie Antenna Design for Wi-Fi Underwater Communications](#)", Progress In Electromagnetics Research (PIER) M Journal, Vol. 41, 189–198, 2015.
- 06_J06. E. Karagianni, "[Broadband HF Antenna's VSWR variations due to the effects of the complex navy ship surroundings](#)", International Journal of Electronics and Communication Engineering & Technology, ISSN 0976-6464, Volume 5, Issue 5, pp 111-121, May 2014.
- 07_J07. D.E. Tsigkas*, D.S. Alysandratou* and E.A. Karagianni, "[Butterworth Filter Design at RF and X-band Using Lumped and Step Impedance Techniques](#)", International Journal of Advanced Research in Electronics and Communication Engineering, Volume 3, Issue 4, April 2014.
- 08_J08. C. Lessi*, E. Karagianni, "[An X band Low Noise Amplifier Design for Marine Navigation Radars](#)", pp.19-28, International Journal of Communications, Networks and Systems Science, Volume 7, No 3, March 2014.
- 09_J09. A. Tsaraklimanis*, E. Karagianni, "[Low Noise Amplifier Design for Digital Television Applications](#)", Journal of Electromagnetic Analysis and Applications, ISSN: 1942-0730, Vol.3, No.7, July 2011.
- 10_J10. H. E. Nistazakis, E. A. Karagianni, A. D. Tsigopoulos, M. E. Fafalios, and G. S. Tombras, "[Average Capacity of Optical Wireless Communication Systems Over Atmospheric Turbulence Channels](#)", Journal of Lightwave Technology, Vol.27, Iss.8, pp.974-979, 2009.
- 11_J11. H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios, "[Capacity Estimation of Wireless Optical Communication Systems Over Moderate to Strong Turbulence Channels](#)", Journal of Communications and Networks, ISSN 1229-2370, vol.11, no 4, pp.384-389, 2009.
- 12_J12. G.A. Ovsyannikov, I.V. Borisenko, K.Y. Constantinian, Y.V. Kisinski, A.A Hakhoun-Lian, N.G Pogosyan, T. Zakaryan, N.F. Pedersen, J. Mygind, N. Uzunoglu and E. Karagianni, "[Bandwidth and Noise of Submillimeter Wave Cuprate Bicrystal Josephson Junction Detectors](#)", IEEE Transactions on Applied Superconductivity, Volume 15, Issue 2, June 2005, Digital Object Identifier 10.1109/TASC.2005.849902, ISSN 1051-8223, Pages: 533 – 536, 2005.
- 13_J13. A. Moropoulou, M. Kouli, N.P. Avdelidis, E.T. Delegou, E. Aggelakopoulou, M. Karoglou, P. Karmis, A. Aggelopoulos, S. Griniezakis, E.A. Karagianni, N. K. Uzunoglou, "[Investigation for the Compatibility of Conservation Interventions on Hagia Sophia Mosaics Using NDT Techniques](#)", Rafael – Comarech R99/II.2.a.11/GR-99/SI2.81089, "Compatible Materials Recommendations for the Preservation of European Cultural Heritage", Part 59, Journal of European Study Group on Physics, Chemistry, Biology and Mathematics Technology with Applications on Archaeology, pp. 103-120, PACT ISSN 0257-8727, 2000.
- 14_C01. C. Lessi*, V. Valindras*, K. Hadjisavva*, E. Karagianni, G. Deligeorgis, A. Stavriniadis, G. Konstantinidis, A. Panagopoulos, "[GaN-AlGaN on SiC pHEMT design for a Digital Radio Frequency Memory](#)", 28th International Conference on Mixed Design of Integrated Circuits and Systems, Poland, via internet, June 25, 2021.
- 15_C02. T. Korfiati*, D. Zaharias*, T. Mpountas*, G. Stratakos, E. Karagianni, G. Deligeorgis, Invited Paper, "[3-D Coplanar and Grounded coplanar Passive elements designs and Simulations on Si, SiN Substrate](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Coplanar and Grounded Coplanar 3D Microelectronic Components" invited session, EPSMSO 2021
- 16_C03. Lessi Ch.C., Vallindras V.T., Hadjisavva K.V., Karagianni E.A., Deligeorgis G., Stavriniadis A., Konstantinidis G., Panagopoulos A.D, "[Coplanar 3-D GaN-AlGaN on SiC Two and Four-Finger P-HEMT Designs](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Coplanar and Grounded Coplanar 3D Microelectronic Components" invited session, 9th IC-EpsMsO 2021
- 17_C04. T. Korfiati*, E. Karagianni, A. Stavriniadis, A. Tsigopoulos, G. Stavriniadis, A. Kostopoulos, A. Arapogianni, "[Configurable Multi-Frequencies Microstrip Square Spiral Antenna RFID Tag at S and C-Band with Different Substrates](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Coplanar and Grounded Coplanar 3D Microelectronic Components" invited session, 9th IC-EpsMsO 2021

- 18_C05. T. Mpountas*, G. Stratakos, E. Karagianni, D. Kaklamani, Y. Papananos, "[Improving a Three-Stage Wideband GaN Coplanar LNA by using Source Generation Redundancy Techniques](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Circuits and Systems for X band applications: Design and Measurements" session, EPSMSO 2021
- 19_C06. Ch. C. Lessi*, E. A. Karagianni, A. Kostopoulos, G. Konstantinidis, N. Melanitis, A. D. Panagopoulos, "[Matching Circuit Topologies for Reliable Amplifiers Operating in 6-8 GHz, based in GaN Technology](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Circuits and Systems for X band applications: Design and Measurements" session, EPSMSO 2021
- 20_C07. C. N. Vazouras, A. Polymerou, S. Kyriakou, A. D. Tsigopoulos, E. A. Karagianni, A. S. Paipetis, N. Melantis, "[Measuring the Radar Cross Section of Carbon Fiber Reinforced Composite Panels in a Non-Anechoic Environment](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Circuits and Systems for X band applications: Design and Measurements" session, EPSMSO 2021
- 21_C08. Ch. C. Lessi*, G. Deligeorgis, A. Stavrinidis, E. A. Karagianni, C.V. Vazouras, A. D. Panagopoulos, "[Efficient X-Band LNA Design by using a Partially Stable GaN p-HEMT](#)", "Planar Structures for Microwave Applications on a Micro and Macro Scale: Designs and Materials" Mini Symposium, "Circuits and Systems for X band applications: Design and Measurements" session, EPSMSO 2021
- 22_C09. Evangelia Karagianni, Christina Lessi*, Christos Vazouras, Athanasios Panagopoulos, George Deligeorgis, George Stavrinidis, Athanasios Kostopoulos, "[Noise Resistance Estimation for a GaN JFET Using Small Signal Measurements for an X-band LNA](#)", 27th International Conference on Mixed Design of Integrated Circuits and Systems, Poland, via internet, June 26, 2020
- 23_C10. E. Karagianni, Ch. Lessi, "[GaN wideband receiver for new generation applications](#)", IIER 705th International Conference on Recent Innovations in Engineering and Technology (ICRIET), Bali, Indonesia during 30th - 31st August, 2019
- 24_C11. Korfiati T.J.*, Karagianni E.A., Arapogianni A., Vazouras C.N., Fafalios M.E., "[A Microstrip Square Spiral Antenna in 2.4GHz for a RFID Tag](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.1-6, 2017
- 25_C12. Mpountas T.K.*, Papadopoulos N.D.*, Karagianni E.A, Kaklamani D.I., "[Design Analysis of a Low Noise Amplifier for Navigation Radars](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.105-112, 2017
- 26_C13. Kasapoglu G.B.*, Karagianni E.A., Fafalios M.E., Koukos I.A., "[Pascal Approximation in Passive Filter Design](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.365-376, 2017
- 27_C14. Alifragkis E.F.*, Kasapoglu G.B.*, Karagianni E.A., Vazouras C.N., Fafalios M.E., Uzunoglu N.K., "[Profiling of Dielectric-Conductivity Properties of Hayia Sofia Globe by Using Microwave Reflectometry Technique](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.395-401, 2017
- 28_C15. Malainas K.T.*, Papadopoulos N.D.*, Karagianni E.A., Vazouras C.N., Fafalios M.E., "[Recent Research in 5G Cellular Communication Systems: A Power Amplifier Example](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.402-409, 2017
- 29_C16. Alvertos K.N.*, Vardakis K.D*, Mitropoulos A.P.*, Karagianni E.A., Vazouras C.N, Fafalios M.E., "[Tropospheric and Underwater Propagation Models at Microwave Frequencies](#)", Proceedings of the 7th International Conference on Experiments/Process/System Modeling/Simulation/Optimization, pp.541-547, 2017
- 30_C17. Konstantinos N. Alvertos*, Evangelia A. Karagianni, Thomas X. Mpountas*, Dimitra I. Kaklamani, Konstantinos D. Vardakis*, "[Bow-Tie Antenna for Underwater Wireless Sensor Networks](#)", International Workshop on Antenna Technology (iWAT), IEEE, Athens, Greece, March 2017.
- 31_C18. G.K. Varotsos, H.E. Nistazakis, E.A. Karagianni, A.D. Tsigopoulos and G.S. Tombras, "[Optical Wireless Communication Links with Time Diversity over Log-Normal Turbulence Channels with Time Dispersion and Spatial Jitter](#)", 7th International Conference from "Scientific Computing to Computational Engineering" 7th IC-SCCE Proceedings, Athens, 6-9 July, Vol. II, pp. 322-328, 2016.
- 32_C19. Kouzonis A*, Karagianni E., Nistazakis H.E., Abushanamb, A.A.*, Korfiati T.J.*, Lessi Ch.*, Fafalios M., "[A Vacuum Channel Transistor for Sub-Millimeter Wave Spectrum Utilization in Amplifier's Design](#)", International Conference from Scientific Computing to Computational Engineering, 7th IC-SCCE, 2016.
- 33_C20. Zisis S.*, Karagianni E., Nistazakis H.E., Vazouras Ch., Tsigopoulos A.D., Fafalios M., "[Maximally Flat Microstrip Band-Pass Filter Design for UWB Applications Using Step Impedance Techniques and Quarter-Wave Structures](#)", International Conference from Scientific Computing to Computational Engineering, 7th IC-SCCE, 2016.

- 34_C21. E.A. Karagianni, A.P. Mitropoulos*, N.G. Drolias, A.D. Sarantopoulos, A.A. Charantonis, "[Radio Refractivity and Rain-Rate Estimations over Northwest Aegean Archipelagos for Electromagnetic Wave Attenuation Modelling](#)", 11th International Conference TRANNAV 2015 on Marine Navigation and Safety of Sea Transportation, Information, Communication and Environment: Marine Navigation and Safety of Sea Transportation, Adam Weintrit, Tomasz Neumann, CRC Press, June 2015.
- 35_C22. T.J. Korfiati*, E.A. Karagianni, Ch.N. Vazouras, Ch.C. Lessi*, and N.K. Uzunoglu, "[Microwave Amplifier Design for Solid State Radar Transceivers at X-Band](#)", Progress in Electromagnetics Research Symposium", 2015, Multiband Radio Frequency Integrated Circuits and Systems by Nagendra Prasad Pathak session, PIERS Proceedings, Prague, Czech Republic, July 2015.
- 36_C23. Evangelia A. Karagianni, Christina C. Lessi* and Christos N. Vazouras, "[On-going GaN SSPA for Naval Radar Transmitters: A MMIC Amplifier Design](#)", 9th International Conference on High-Performance Marine Vehicles, Athens, Greece, pp. 253-260, December 2014
- 37_C24. H.M. Katiniotis*, I.S. Karanasiou, E.A. Karagianni, H.E. Nistazakis, A.D. Tsigopoulos and M.E. Fafalios, "[Numerical Models for the Phase Shift of the Permittivity and Permeability for Magneto-Electric Lattice in Metamaterials](#)", 1st International Conference on Electrical Engineering and Applications – MIC-Electrical 2014, Athens, Greece, 4-6 April 2014.
- 38_C25. Evangelia Karagianni, "[The effects of RFI sources and the complex nearby ship environment \(EMC\) on the VSWR of a broadband HF antenna system](#)", 2nd International Marinelive Conference on "All Electric Ship", Athens, Greece, 12-13 February, 2014.
- 39_C26. E. Karagianni," [The effects of RFI sources and the complex nearby ship environment \(EMC\) on the VSWR of a broadband HF antenna system](#)", International Marinelive web-conference on "All Electric Ship" – November 21, 2013.
- 40_C27. E. Karagianni, I. Gyparis, J. Prousalidis, L. Karaminas, "[Facing the demands for more electrical training: the STCW/ETO amendments](#)", Marinelive Workshops on Ship Electric Grids and Power Management Systems, June 5, 2013.
- 41_C28. Haralambos P. Kokkallelis* and Evangelia A. Karagianni, "[A Uniform Design of Microstrip Hairpin Line Filter at 7.2 GHz](#)", MMACTEE'09 Proceedings, 11th WSEAS International Conference on Mathematical methods and computational techniques in Electrical Engineering ISSN: 1790-2769, ISBN: 978-960-474-124-3, pp. 252-257, Vouliagmeni, Athens Greece, December 29-31, ACC 2009.
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- 43_C30. H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E.Fafalios, "[Average BER Estimation of Optical Wireless Communication Links Using OOK Over Turbulence Channels](#)", IET 2009 – Mosharaka International Conference on Communication, Propagation and Electronics (MIC-CPE 2009), Amman, Jordan, February 5-8, 2009.
- 44_C31. E.A. Karagianni, P.S. Tsenes, N.C. Athanasopoulos, and R.J. Makri, "[Decrease of Oscillator Phase Noise and I/Q Imbalance Negative Impacts on a WLAN Transmitter Using Appropriate Predistortion](#)", 6th Symposium on Communication Systems, Networks and Digital Signal Processing, CSNDSP 2008, 23-25 July 2008, Graz, Austria, Print ISBN: 978-1-4244-1875-6, pp.378-381, 2008.
- 45_C32. H.E. Nistazakis, G.S. Tombras, A.D. Tsigopoulos, E.A. Karagianni, M.E. Fafalios, "[Average Capacity of Wireless Optical Communication Systems over Gamma Gamma Atmospheric Turbulence Channels](#)", IEEE MTT-S International Microwave Symposium, Atlanta, Georgia, June 15-20, Proceedings IEEE MTT-S, pp. 1561-1564, IMS 2008.
- 46_C33. Evangelia A. Karagianni, Yorgos E. Stratakos, Christos N. Vazouras and Michael E. Fafalios, "[Design and Fabrication of a Microstrip Hairpin-Line Filter by Appropriate Adaptation of Stripline Design Techniques](#)", ISMOT 2007, 11th International Symposium on Microwave and Optical Technology, December 17-21, 2007, Monte Porzio Catone, Roma, Italy, ISBN: 978-88-548-1476-9, pp. 509-512, 2007.
- 47_C34. A. Moropoulou, M. Kouli, N.P. Avdelidis, E.T. Delegou, E. Aggelakopoulou, M. Karoglou, P. Karmis, A. Aggelopoulos, S. Griniezakis, E.A. Karagianni, N. K. Uzunoglou, "[NDT Methodology for the Protection of Mosaics](#)", ART 2002, 7th International Conference on Non-Destructive Testing and Microanalysis for the Diagnostics and Conservation of the Cultural and Environmental Heritage, 2-6 June 2002, Congress Centre Elzenveld Antwerp, Belgium, Pages 71-1 to 71-8, 2002.
- 48_C35. E. A. Karagianni, N. K. Uzunoglu, "[A Distributed Transmission Line Amplifier with Constant Gain Operating DC up to 40 GHz for Wideband Telecommunication Applications](#)", 8th International Conference on Advances in Communications and Control, Grecotel Rithimna Beach, Crete, Greece, 25-29 June 2001, ICECS 2001: 8th IEEE International Conference on Electronics, Circuits and Systems (Cat. No.01EX483), Volume 3, Digital Object Identifier 10.1109/ICECS.2001.957407 pp. 501-504, ISBN 0-911575-78-2, 2001.

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- 52_C39. P.N. Paraskevopoulos, A.S. Tsirikos, E.A. Karagianni, "[Robust tracking of an inverted pendulum via a new linear exact model matching technique](#)", Proceedings of the 34th IEEE Conference on Decision and Control, Publication Date: 13-15 Dec 1995 Volume: 2, On page(s): 1676-1683, vol.2, Meeting Date: 12/13/1995 - 12/15/1995 Location: New Orleans, LA, USA ISBN: 0-7803-2685-7, INSPEC Accession Number: 5177544 Digital Object Identifier: 10.1109/CDC.1995.480381, 1995.
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- 55_Σ02. Α.Ρ. Mitropoulos*, Ε.Α. Karagianni, C.N. Vazouras, Ε.Η. Papageorgiou, Η.Ε. Nistazakis, "[Research for Rain Attenuation in Aegean Archipelagos at Microwave Frequencies](#)", ημερίδα με θέμα τεχνολογική έρευνα και καινοτομία στα ΑΣΕΙ, ΥΠΕΘΑ/ΓΔΑΕΕ, Οκτώβριος 2015.
- 56_Σ03. F.E. Fakoukakis, Tz. Empliouk, V. Kasouras, Ev. Karagianni, N. Mitianoudis, G. Dimitrakopoulos and G.A. Kyriacou, "Multi-functional radar system software controlled radio for defense and security applications, Πολύ-λειτουργικό σύστημα ραντάρ λογισμικά ελεγχόμενου ράδιο για αμυντικές και πολιτικές εφαρμογές ασφαλείας", Ημερίδα με θέμα τεχνολογική έρευνα και καινοτομία στα ΑΣΕΙ, ΥΠΕΘΑ/ΓΔΑΕΕ, Οκτώβριος 2015.
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- 58_Σ05. Α. Μοροπούλου, Μ. Κουή, Ν. Αβδελίδης, Α. Δελέγκου, Ε. Αγγελακοπούλου, Μ. Καρόγλου, Σ. Γκρινιεζάκης, Ε. Καραγιάννη, Ν. Ουζούνου, Α. Αγγελόπουλος, "[Εξέταση της Συμβατότητας Επεμβάσεων Συντήρησης στα Μωσαϊκά της Αγιά Σοφίας με μή Καταστρεπτικές Τεχνικές](#)", Rafael Comarech, 3rd European Conference, in Compatible Materials for the Protection of Monuments, Συμβατά Υλικά στη Συντήρηση των Μνημείων, Athens, NTUA, 15-16 December 2000.
- 59_Π01. Ε.Α. Karagianni, Α.Ρ. Mitropoulos*, Α.Γ. Kavousanos-Kavousanakis, J.A. Koukos and M.E. Fafalios, "[Atmospheric Effects on EM Propagation and Weather Effects on the Performance of a Dual Band Antenna for WLAN Communications](#)", Nausivios Chora, A journal in Naval Sciences and Technology, ISSN:1791-4469, 2014.
- 60_Π02. Χ. Κατηνιώτης*, Ε. Καραγιάννη, "Μοντελοποίηση και Ανάλυση Πλέγματος Μεταυλικού υπό την Επίδραση Ηλεκτρομαγνητικού Πεδίου", Επιστημονικά Δημοσιεύματα ΣΣΕ, Τεύχος 8, 2014.
- 61_Π03. Ν. Χατζηθαθανασίου* και Ε. Καραγιάννη, "[Σύγκριση Απλοποιημένης Μεθόδου Πραγματικής Συχνότητας με Μεθόδους Κατανεμημένης Ενίσχυσης στη Σχεδίαση Ενισχυτή Χαμηλού Θορύβου για Εφαρμογές Ευρείας Ζώνης 3.1-10.6 GHz](#)", pp. 96-109, Ναυσίβιος Χώρα, Περιοδική Έκδοση Ναυτικών Επιστημών, ISSN:1791-4469, σελ. 96-109, Τεύχος 4/2012.
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