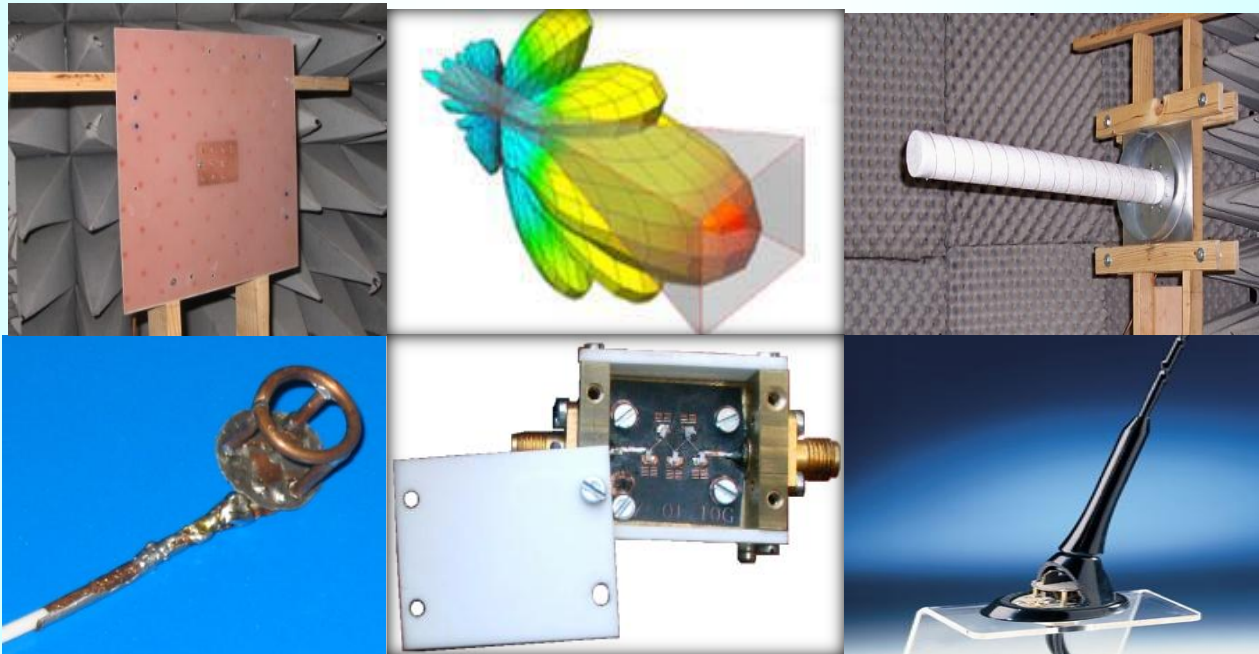


The Department of General Electrical Engineering (GEE)



University of Belgrade School of Electrical Engineering





Personnel



Full Member of the Academy of Sciences and Arts:

PhD Antonije Đorđević

Full Professors:

PhD Branko Kolundžija
Fellow IEEE

PhD Dejan Tošić

PhD Dragan Olćan

PhD Marija Stevanović

PhD Milan Ilić

PhD Milka Potrebić Ivaniš

Associate Professor:

dr Slobodan Savić

Assistant Professors:

dr Jelena Dinkić

dr Miodrag Tasić

dr Nikola Basta

Teaching Assistants:

Darko Ninković

Jovana Petrović

Teaching Associates:

Anja Kovačević

Filip Nešković





Subject of Study



- Theory of electromagnetic fields
- Numerical electromagnetics and modeling
- Electromagnetics in biomedical engineering
- Antennas and propagation
- Microwave circuits
- Electromagnetic compatibility
- Microwave measurements
- RF/Microwave filter design
- Symbolic simulation of circuits and systems
- Inverse scattering
- Diacoptic analysis of complex electromagnetic structures
- Optimization algorithms applied to electromagnetics
- Automatic meshing for 3D electromagnetic full-wave simulation



Undergraduate Studies



Electrical Engineering and Computing Curriculum

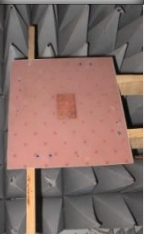
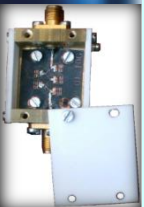
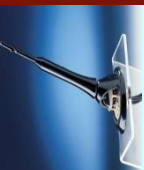
1. Fundamentals of Electrical Engineering 1
2. Fundamentals of Electrical Engineering 2
3. Practicum in Fundamentals of Electrical Engineering 1
4. Practicum in Fundamentals of Electrical Engineering 2
5. Fundamentals of Electrical Engineering - LAB
6. Electric Circuit Theory
7. Electromagnetics
8. Practicum - Computer-Based Circuit Analysis

Module for Telecommunications and IT, Module for Electronics

1. Microwave Engineering
2. Microwave Electronics
3. Electromagnetic Compatibility

Module for Telecommunications and IT

1. Antennas and Propagation
2. Passive Microwave Circuits
3. Microwave Measurements
4. Software Tools for Antenna Design



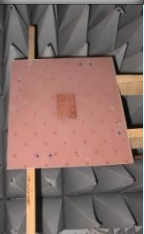
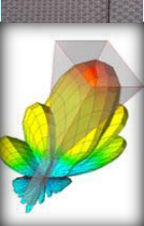
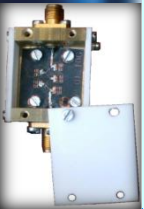


Master Degree Studies



Module Microwave Engineering

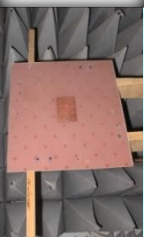
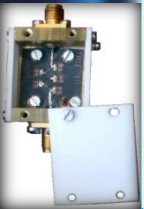
1. Modeling and Simulation of Electromagnetic Fields
2. Microwave Filter Design
3. Electromagnetic Compatibility Testing
4. Millimeter Waves
5. Software Tools for Antenna Design
6. Microwave Imaging
7. Basic Optimization Algorithms in Engineering





Module Microwave Engineering

1. Electromagnetics
2. Antennas and Propagation of Radio Waves
3. Microwave Engineering
4. Method of Moments in Electromagnetics
5. Finite Element Method in Electromagnetics
6. Analysis and Synthesis of Antennas
7. Electromagnetic Compatibility and Signal Integrity
8. Microwave Electronics
9. Passive Microwave Circuits
10. RF/Microwave Filter Design

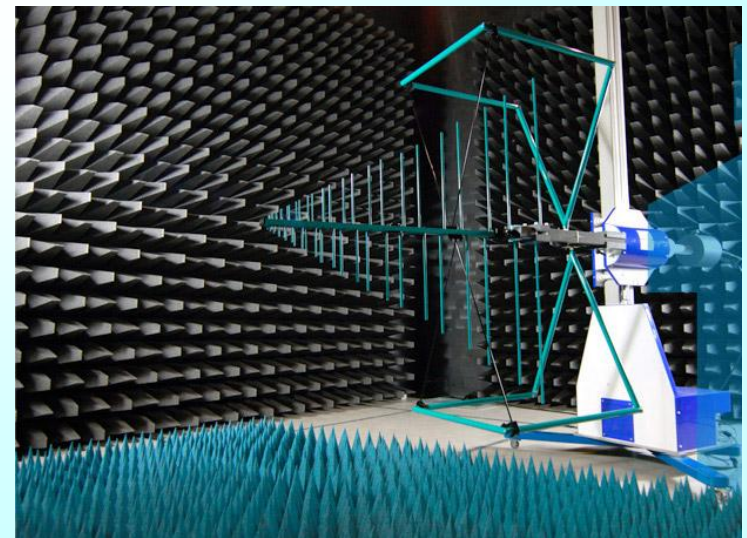
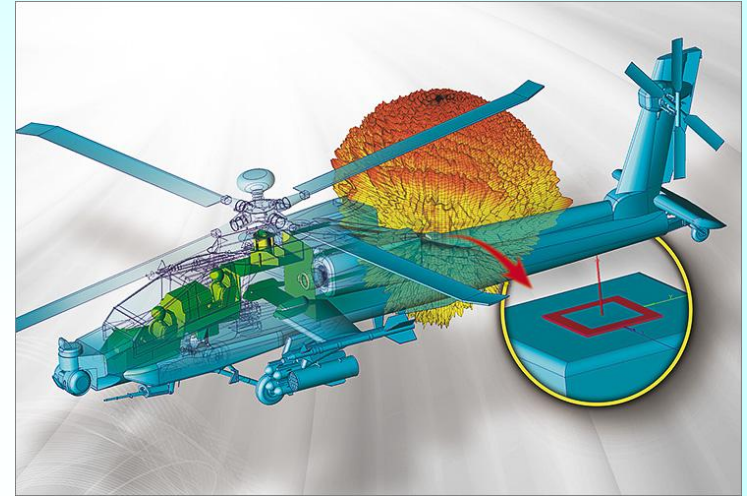




Module: Microwave Theory and Techniques



- Development of software for application in electrical engineering
- Design of components for wireless communications and radar systems
- Electromagnetic compatibility
- Design of systems and development of algorithms for Magnetic Resonance Imaging and Microwave Imaging

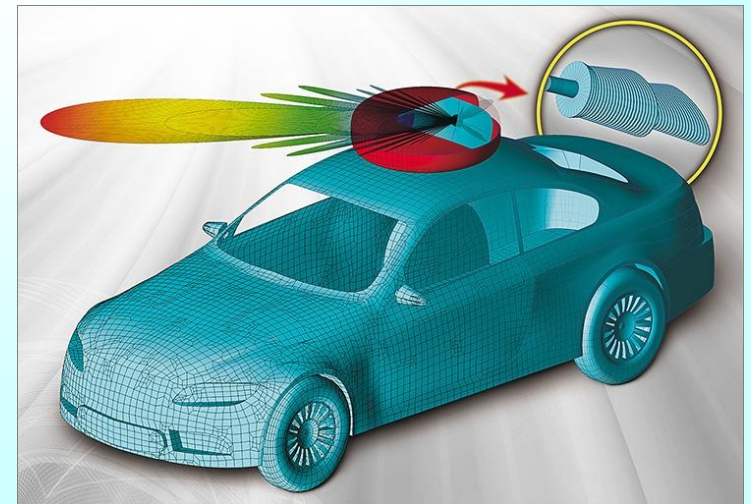
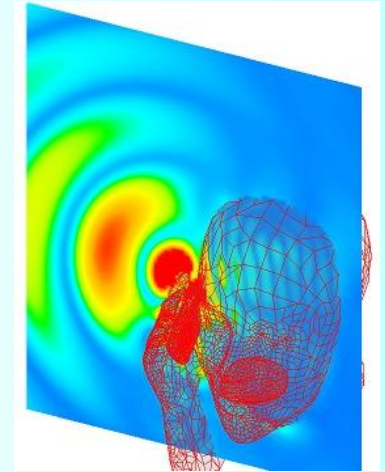




About our Work



- Radiation of electronic devices
- Influence of EM fields on biological tissues
- Radio-wave propagation
- Projects: Ministry of education, science and technological development, EU FP7, EU/RS IPA, EU COST Actions, USA NSF, USA DARPA
- Collaboration with students

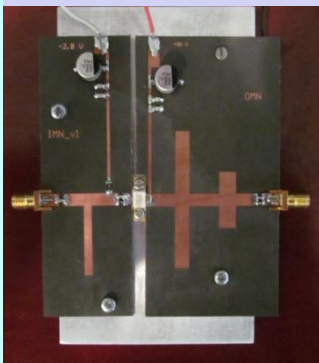




Student Projects



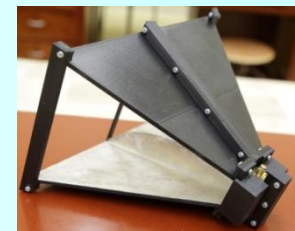
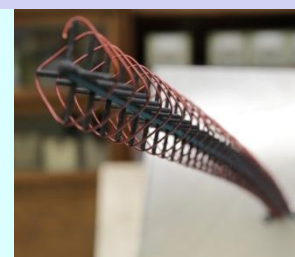
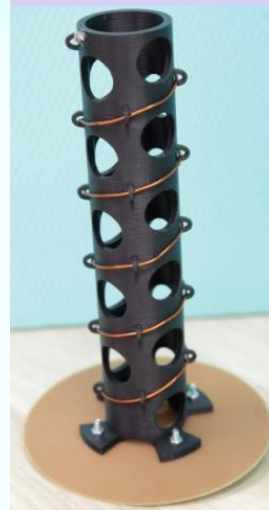
Amplifiers



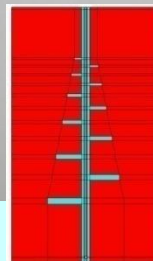
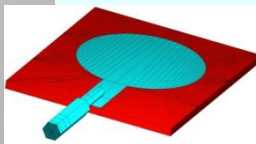
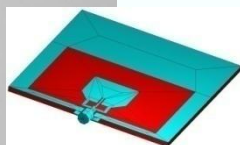
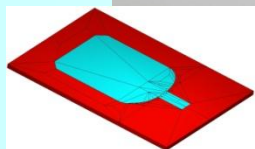
Filters



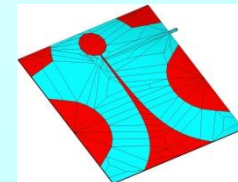
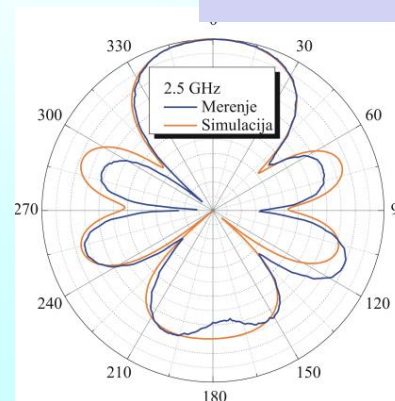
3-D Printed Antennas



Printed Antennas



Measurements





Science and Career



- Careers of our students in Serbia:

- WIPL-D d.o.o, IMTEL Komunikacije a.d., Emisiona Tehnika i veze a.d., ENDAVA/PStech d.o.o., Telekom, Telenor, VIP, Ericsson, Bosch a.d., Insitut za fiziku, Institut Mihajlo Pupin, Idvorsky Laboratorije, Tehnički opitni centar, Institut bezbednosti, Microsoft, Novel, UBConnect INT d.o.o...

- Scientific collaboration with foreign institutions:

- Colorado State University, University of Colorado Boulder, EPFL Switzerland, Georgia Tech USA, Wolfram Research, Inc. (Mathematica), Washington University in St Louis, University of Westminster London, ELEDIA research center Trento, Italy, CNR IREA Italy, University of Rennes, Universidad Politechnico de Madrid...

- Careers of our students in foreign countries:

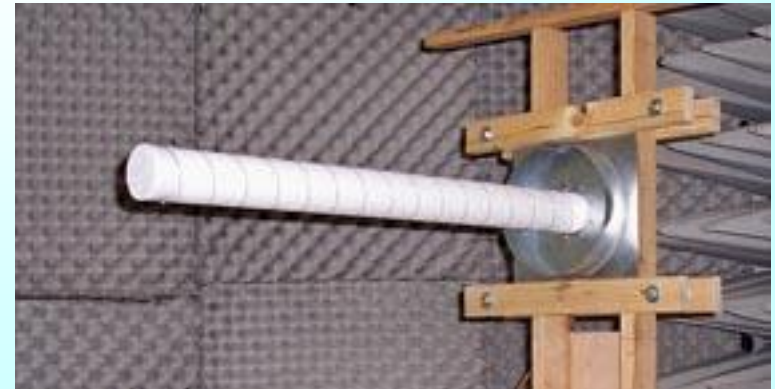
- INTEL, Hewlett Packard, Bomdardier, Airbus, Nokia, Skyworks solutions





**The Department
of General
Electrical
Engineering**

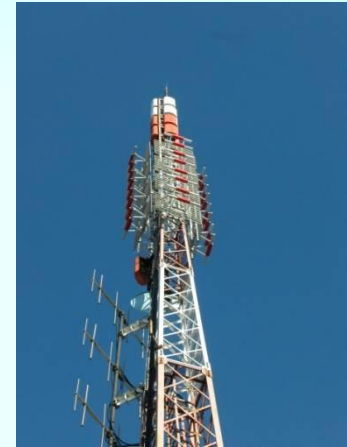
Labs and Hands-on Work





The Department
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Collaboration with Companies





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WIPL-D offers cutting-edge software for fast and accurate electromagnetic and circuit modeling and simulation, including various application areas:

- Antennas
- Microwaves
- Scattering
- EMC

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SOFTWARE PRODUCTS

WIPL-D Pro



New version!

The main WIPL-D tool, a powerful engine for modeling and solution of surface-meshed models, the cornerstone for every other product.

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WIPL-D Pro CAD



New version!

The solid modeler and importer, with the sole purpose to make the transfer of complex geometries into WIPL-D simulation-ready projects simple and easy.

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Microwave Pro



The circuit simulator of WIPL-D product suite, immensely powerful tool for co-simulation of circuit and 3D-EM structures with WIPL-D Pro in the background.

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News

Events

- WIPL-D Pro CAD 2017 is now officially released!
- WIPL-D Pro v14 is now officially released!
- WIPL-D Microwave Pro 4 is now officially released
- WIPL-D 2D Solver is now officially released!

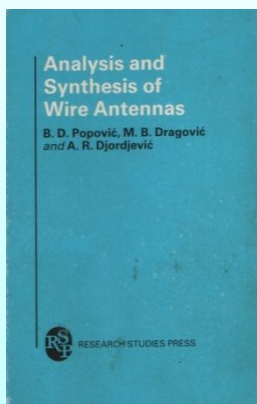
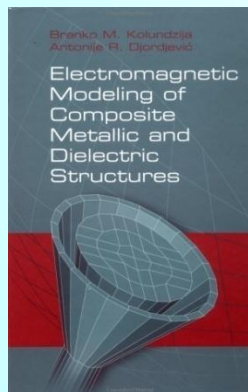
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2. B.D. Popovic, M.B. Dragovic, and A. R. Djordjevic, ***Analysis and Synthesis of Wire Antennas***, Chichester, U.K.: Research Studies Press, 1982.
3. M.D. Lutovac, D.V. Tosic, and B.L. Evans, ***Filter Design for Signal Processing using MATLAB® and Mathematica®***, Upper Saddle River, NJ, Prentice Hall, 2001.
4. A. Đorđević, ***Electromagnetics***, Academic Mind, Belgrade, 2008. (in Serbian)
5. A. Đorđević and D. Tošić, ***Microwave engineering***, Academic Mind, Belgrade, 2010. (in Serbian)

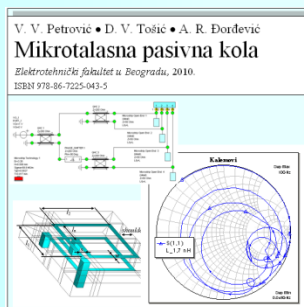




Our Books



6. V. V. Petrović, D. V. Tošić, and A. R. Đorđević, ***Microwave Passive Circuits***, University of Belgrade, School of Electrical Engineering, Belgrade, 2010. (in Serbian)
7. A. Đorđević and D. Olćan, ***Electromagnetic Compatibility Testing***, Academic Mind, Belgrade, 2012. (in Serbian)
8. A. Đorđević, ***Fundamentals of Electrical Engineering***, parts 1-4: *Electrostatics, Stationary Currents, Electromagnetism, Alternating Current Circuits*, Academic Mind, Belgrade, 2012. (in Serbian)
9. M. Ilić and S. Savić, ***Microwave electronics***, Academic Mind, Belgrade, 2017. (in Serbian)

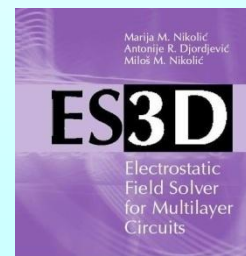
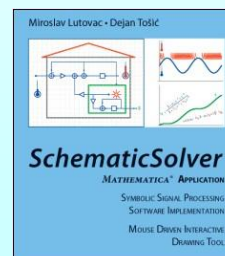
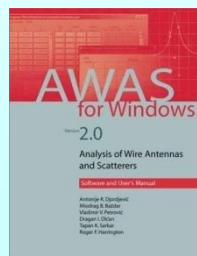
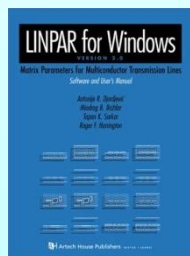
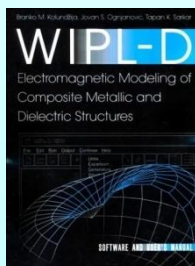




Our Software



1. B.M. Kolundžija, J.S. Ognjanović, T.K. Sarkar, D.S. Šumić, M.M. Paramentić, B.B. Janić, D.I. Olćan, D.V. Tošić, M.S. Tasić, **WIPL-D Microwave Software and User's Manual**, WIPL-D/Artech House, Belgrade/Norwood, 2005.
2. A. R. Djordjevic, et al., **LINPAR for Windows: Matrix Parameters for Multiconductor Transmission Lines—Software and Users' Manual**, Norwood, MA: Artech House, 1996.
3. A. R. Djordjevic, et al., **AWAS for Windows, Version 2.0: Analysis of Wire Antennas and Scatterers (Software and User's Manual)**, Norwood, MA: Artech House, 2002.
4. M.D. Lutovac and D.V. Tosić, **SchematicSolver 2.2**, A Mathematica package for mixed symbolic-numeric analysis, processing, and design of analog and digital systems, distributed by Wolfram Research, 2009.
5. Marija Nikolic, Antonije Djordjevic, and Milos Nikolic, **ES3D: Electrostatic Field Solver Software**, Norwood, MA: Artech House, 2006.





Our Achievements



- More than 30 monographs and textbooks
- Over 150 journal papers (JCR Sci IF)
- About 400 conference papers
- Courses
- Software
- Consulting and Research Projects
- Patents
- IEEE MTT Microwave Prize



- HFSS allows you to enter the relative permittivity and loss tangent at a single measurement frequency. You may optionally enter the relative permittivity and conductivity at DC.
- This is the best method if you don't have measured data.

ANSYS

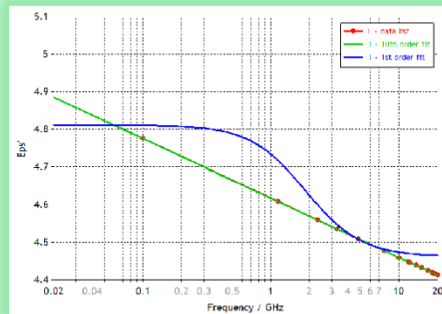
CST



CST – Computer Simulation Technology

Materials - dielectrics

- Dielectric properties extracted from measurements need to be **passive** and **causal**
- Common PCB/package dielectric materials exhibit gradual change in dielectric constant over a very broadband frequency range (Debye models with many relaxation terms)

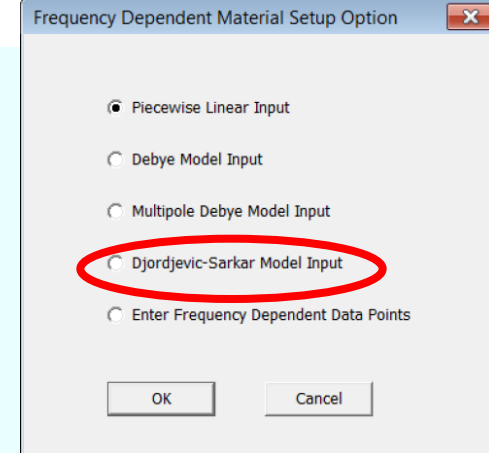


- Cole-Cole

$$\epsilon^*(\omega) - \epsilon_\infty = \frac{\epsilon_s - \epsilon_\infty}{1 + (i\omega\tau)^{1-\alpha}}$$

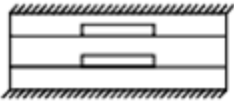
- **Djordjevic Sarkar (#)** - wideband Debye model; the model captures the physics of the composite dielectrics, it is causal and requires just two coefficient to describe it

(#) A.R. Djordjevic, R.M. Biljic, V.D. Lika-Smiljanic, Tapan K. Sarkar, " Wideband Frequency-Domain Characterization of FR-4 and Time-Domain Causality", IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, VOL. 43, NO. 4, NOVEMBER 2001

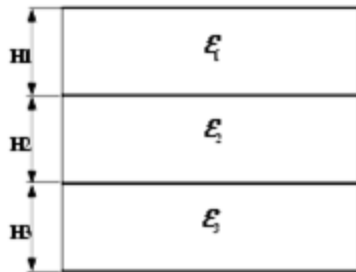


3-Layer Stripline Substrate Definition: SSUBT

Symbol



Topology



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[1] M. B. Bazda, **A. R. Djordjevic**, R. F. Harrington, and T. K. Sarkar, "Evaluation of quasi-static matrix parameters for multiconductor transmission lines using Labeled Documentation

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[1] B. Bazda, **A. R. Djordjevic**, R. F. Harrington, and T. K. Sarkar, "Evaluation of quasi-static matrix parameters for multiconductor transmission lines using ... Labeled Documentation

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[1] B. Bazda, **A. R. Djordjevic**, R. F. Harrington, and T. K. Sarkar, "Evaluation of quasi-static matrix parameters for multiconductor transmission lines using ... Labeled Documentation



[2 Edge Coupled Striplines \(EM Quasi-Static\): S2CLIN - AWR](#)

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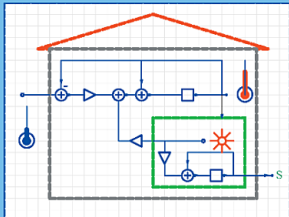
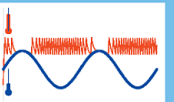
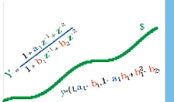
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[1] Miroslav D. Lutovac, Dejan V. **Tosic**, and Brian L. Evans, Filter Design For Signal Processing Using MATLAB and Mathematica, (Prentice Hall, 2001), ...
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Elliptic-Function Bandpass Filter (Closed Form): BPFE
<https://awrcorp.com/download/faq/english/docs/Elements/bpfe.htm>

$$C = \frac{N-1}{2} \left(\frac{1 - \omega_c^2}{1 - \omega_i^2} \right)$$

[1] Miroslav D. Lutovac, Dejan V. **Tosic**, and Brian L. Evans, Filter Design For Signal Processing Using MATLAB and Mathematica, (Prentice Hall, 2001), ...
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References

- [1] Miroslav D. Lutovac, Dejan V. Tosic, and Brian L. Evans, Filter Design For Signal Processing Using MATLAB and Mathematica, (Prentice Hall, 2001), Chapters 6, 12, and 13.
- [2] Alexander J. Grossman, "Synthesis of Tchebycheff parameter symmetrical filters," Proceedings of the IRE, pp. 545-473, April 1957.

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Last updated: Thu Apr 2 2014

Created, developed, and nurtured by Eric Weisstein at Wolfram Research

Calculus and Analysis > Special Functions > Elliptic Functions > Elliptic Rational Function

Elliptic rational functions $R_n(\xi, x)$ are a special class of rational functions that have nice properties for approximating other functions on the interval $x \in [-1, 1]$. In particular, they are equiripple, satisfy $|R_n(\xi, x)| \leq 1$ over $|x| \leq 1$, are minimax approximations over $|x| \geq \xi$, exhibit monotonic increase on $x \in [1, \xi]$, and have minimal order n . Additional properties include symmetry

$$R_n^2(\xi, -x) = R_n^2(\xi, x),$$

normalization

$$R_n(\xi, 1) = 1,$$

the property

$$R_n(\xi, x) = \frac{R_n(\xi, \xi)}{R_n(\xi, \frac{\xi}{x})},$$

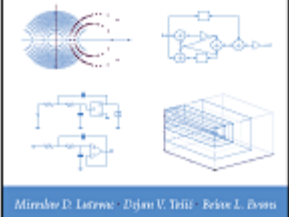
and the nesting property

$$R_{mn}(\xi, x) = R_m(R_n(\xi, \xi), R_n(\xi, x))$$

Autogenerated: 2004

Miroslav D. Lutovac, Dejan V. Tomic, Brian L. Evans, **Filter Design for Signal Processing using MATLAB® and Mathematica®**. Upper Saddle River, NJ: Prentice Hall, 785 pages, 1st ed., ISBN 0-201-36130-2, ©2001. ---, Translated in Chinese, Publishing House of Electronics Industry, PHEI, Beijing, P. R. China, ISBN 7-5053-8710-3, ©2004.

FILTER DESIGN FOR SIGNAL PROCESSING Using MATLAB® and Mathematica®



Miroslav D. Lutovac · Dejan V. Tomic · Brian L. Evans

信号处理滤波器设计

Filter Design for Signal Processing Using MATLAB and Mathematica

1st ed. Miroslav D. Lutovac, Dejan V. Tomic, Brian L. Evans

SEE ALSO:

Chebyshev Polynomial of the First Kind, Elliptic Function, Rational Function

REFERENCES:

Antoniou, A. *Digital Filters: Analysis and Design*. New York: McGraw-Hill, 1979.

Daniels, R. W. *Approximation Methods for Electronic Filter Design*. New York: McGraw-Hill, 1974.

Lutovac, M. D.; Tomic, D. V.; and Evans, B. L. *Filter Design for Signal Processing Using MATLAB and Mathematica*. Upper Saddle River, NJ: Prentice-Hall, 2001.

Referenced on Wolfram|Alpha: Elliptic Rational Function

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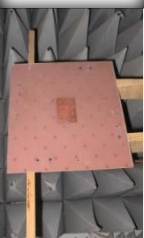
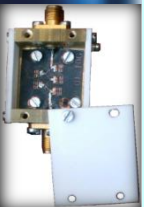
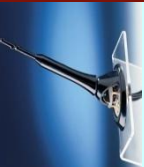
Weisstein, Eric W. "Elliptic Rational Function." From *MathWorld*--A Wolfram Web Resource. <http://mathworld.wolfram.com/EllipticRationalFunction.html>



International Projects



1. **Influence of near EM field on human body** with Institute of Informatics and Telecommunications NCSR "Demokritos", Athens, Greece
2. **COST 284:** "Innovative Antennas for Emerging Terrestrial & Space-based Applications", 2002-2006
3. **COST IC0603:** "Antenna Systems and Sensors for Information Society Technologies" (ASSIST), 2007-2011
4. **COST IC1102:** "Versatile, Integrated, and Signal-aware Technologies for Antennas" (VISTA)
5. **COST IC1401:** "Memristors - Devices, Models, Circuits, Systems and Applications" (MemoCiS), 2014–2018
6. **COST TD1301:** "Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialisation Progress in the Area of Medical Microwave Imaging" (MiMed), 2014-2018

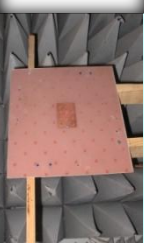
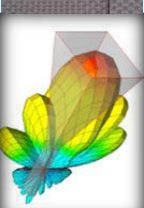
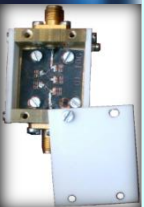




National Projects

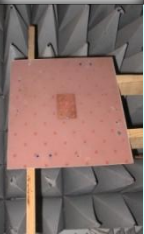
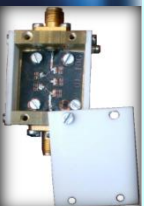


- 1. Passive RF and microwave modules and antennas for digital transmission and wireless internet systems (ИТ.1.17.0241.Б), 2002-2004.**
- 2. RF and microwave components and antennas for wireless computer networks and WiFi internet infrastructure (TP-6154A), 2005-2007.**
- 3. Development of algorithms and software for complex RF and microwave components, antennas and systems design (TP-11021), 2008-2011.**
- 4. Algorithms and software for frequency-domain and time-domain simulation of RF subsystems and electromagnetic sensors in ICT (TP-32005), 2011-2017.**





Some of Our Publications



Publication

Citations (SCOPUS)

Djordjević, A.R., Biljić, R.M., Likar-Smiljanić, V.D., Sarkar, T.K., "Wideband frequency-domain characterization of FR-4 and time-domain causality", <i>IEEE Transactions on Electromagnetic Compatibility</i> , vol. 43, no. 4, November 2001, pp. 662-667; among the 50 most referenced papers in this journal.	141
Djordjević, A.R., Sarkar, T.K., Harrington, R.F., "Time-domain response of multiconductor transmission lines", <i>Proceedings IEEE</i> , vol.75, no. 6, June 1987, pp.743-764.	84
Ilić, M.M. , Notaroš, B.M., "Higher order hierarchical curved hexahedral vector finite elements for electromagnetic modeling", <i>IEEE Transactions on Microwave Theory and Techniques</i> , vol. 51, no. 3, pp. 1026-1033; recipient of 2005 IEEE Microwave Prize.	74
Djordjević, A.R., Sarkar, T.K., Harrington, R.F., "Analysis of lossy transmission lines with arbitrary nonlinear terminal networks", <i>IEEE Transactions on Microwave Theory and Techniques</i> , vol. 34, No. 6, June 1986, pp.660-666.	57
Djordjević, A.R., Sarkar, T.K., "Analysis of time response of lossy multiconductor transmission line networks", <i>IEEE Transactions on Microwave Theory and Techniques</i> , vol. MTT-35, no. 10, October 1987, pp.898-908.	47
Nikolić, M.M., Djordjević, A.R., Nehorai, A., "Microstrip antennas with suppressed radiation in horizontal directions and reduced coupling", <i>IEEE Transactions on Antennas and Propagation</i> , vol. AP-53, no. 11, November 2005, pp. 3469-3476.	42
Nesic, D.A., Kolundzija, B.M., Tošić, D.V., Jeremic, D.S., "Low-pass filter with deep and wide stop band and controllable rejection bandwidth", <i>International Journal of Microwave and Wireless Technologies</i> , vol. FirstView, pp. 1-9, April 2014.	
Tošić, D., Potrebić, M. "Compact multilayer bandpass filter with modified hairpin resonators", <i>Journal of Microelectronics, Electronic Components and Materials</i> , vol. 42, no. 2, pp. 123-130, 2012.	
Tošić, D.V., Hribšek, M. F., "Modelling and wave velocity calculation of multilayer structure SAW sensors", <i>Microelectronics International</i> , vol. 28, no. 2, pp. 3-7, 2011.	



Some of Our Publications



Publication

Simić, S.K. Tošić, D.V., “The Index of Trees with Specified Maximum Degree”, *MATCH Communications in Mathematical and in Computer Chemistry*, vol. 54, no. 2, pp. 351-362, 2005.

Tošić, D.V., Hribšek, M.F., Reljin, B.D., “Generation and design of new continuous-time second order gain equalizers using program SALEC”, *International Journal of Electronics and Communications*, vol. 50, no. 3, pp. 226-229, 1996.

Savić, S.V., Notaros, B.M., Ilić, M.M., “Conformal cubical 3D transformation-based metamaterial invisibility cloak”, *Journal of the Optical Society of America A*, vol. 30, no. 1, pp. 7-12, January 2013.

Savić, S.V., Manić, A.B., Ilić, M.M., Notaroš, B.M., “Efficient Higher Order Full-Wave Numerical Analysis of 3-D Cloaking Structures”, *Plasmonics*, vol. 8, no. 2, pp. 455-463, July 2012

Ilić, M.M., Savić, S.V., Ilić, A.Ž., Notaroš, B.M., “Constant Speed Parametrization Mapping of Curved Boundary Surfaces in Higher-Order Moment-Method Electromagnetic Modeling”, *IEEE Antennas and Wireless Propagation Letters*, vol. 10, pp. 1457-1460, 16 December 2011.

Miljanović, D., Potrebić, M., Tošić, D.V., “Design of Microwave Multibandpass Filters with Quasilumped Resonators”, *Mathematical Problems in Engineering*, vol. 2015, Article ID 647302, 14 pages, 2015.

Stefanovski, S., Potrebić, M., Tošić, D.V., “A novel design of dual-band bandstop waveguide filter using split ring resonators”, *Journal of Optoelectronics and Advanced Materials*, vol. 16, no. 3–4, pp. 486–493, March–April 2014.

Potrebić, M., Tošić, D.V., “A novel design of a compact multilayer resonator using double-sided microstrip”, *Optoelectronics and Advanced Materials-Rapid Communications*, vol. 6, no. 3-4, pp. 441–445, March–April 2012.

Budimir, D., Glubokov, O., Potrebić, M., “Waveguide filters using T-shaped resonators”, *IET Electronics Letters*, vol. 47, no. 1, pp. 38–40, January 2011.

Potrebić, M., Tošić, D.V., Pejović, P.V., “Understanding computation of impulse response in microwave software tools”, *IEEE Transactions on Education*, vol. 53, no. 4, pp. 547–555, November 2010.