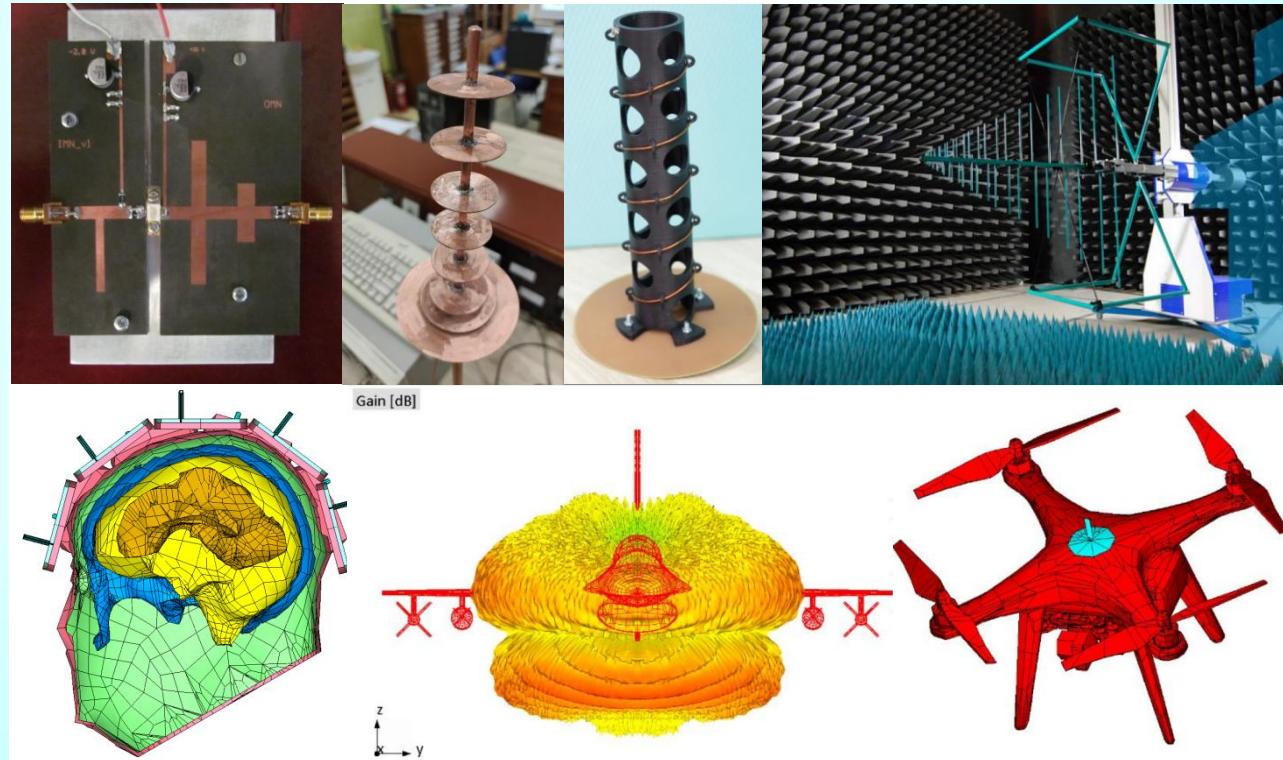


Katedra za opštu elektrotehniku

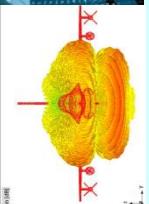
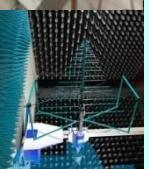


Univerzitet u Beogradu
Elektrotehnički fakultet





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Redovni profesori:

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Fellow IEEE

dr Dejan Tošić

dr Dragan Olćan

dr Marija Stevanović

dr Milan Ilić

dr Milka Potrebić Ivaniš

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dr Slobodan Savić

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dr Jelena Dinkić

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Asistenti:

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Jovana Petrović

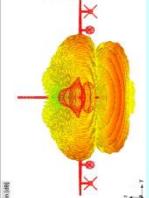
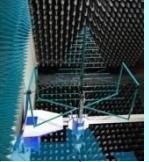
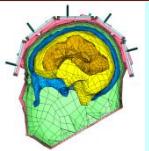
Saradnici u nastavi:

Anja Kovačević

Filip Nešković



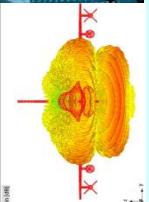
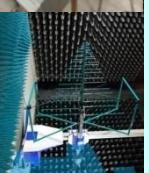
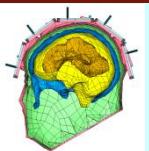
Oblasti izučavanja



- Teorija elektromagnetskih polja
- Numerička elektromagnetika i modelovanje
- Elektromagnetika u biomedicinskom inženjerstvu
- Antene i prostiranje radiotalasa
- Mikrotalasna kola
- Elektromagnetska kompatibilnost
- Mikrotalasna merenja
- Dizajn mikrotalasnih filtara
- Simboličke simulacije kola i sistema
- Inverzno rasejanje
- Dijakoptička analiza složenih elektromagnetskih struktura
- Primene optimizacionih algoritama u elektromagnetiči
- Automatska segmentacija za 3D elektromagnetske simulacije



Osnovne studije



Studijski program Elektrotehnika i računarstvo

1. Osnovi elektrotehnike 1
2. Osnovi elektrotehnike 2
3. Praktikum iz osnova elektrotehnike 1
4. Praktikum iz osnova elektrotehnike 2
5. Laboratorijske vežbe iz osnova elektrotehnike
6. Teorija električnih kola
7. Elektromagnetika
8. Praktikum iz računarske analize kola

Modul Telekomunikacije i IT, Modul elektronika

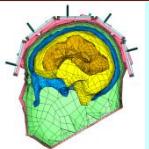
1. Mikrotalasna tehnika
2. Mikrotalasna elektronika
3. Elektromagnetska kompatibilnost

Modul Telekomunikacije i IT

1. Antene i prostiranje
2. Mikrotalasna pasivna kola
3. Mikrotalasna merenja
4. Softverski alati za projektovanje antena
5. Analogni električni filtri



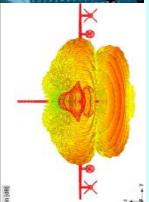
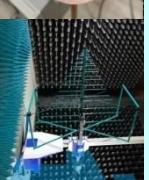
Master studije



Modul Mikrotalasna tehnika



1. Modelovanje i simulacija elektromagnetskih polja
2. Projektovanje mikrotalasnih filtara
3. Ispitivanje elektromagnetske kompatibilnosti
4. Milimetarski talasi
5. Projektovanje elektromagnetskih sistema korišćenjem softverskih alata
6. Formiranje mikrotalasnih slika
7. Optimizacioni algoritmi u inženjerstvu
8. Algoritmi metoda konačnih elemenata u inženjerstvu
9. Inženjerski aspekti generisanja slike korišćenjem magnetske rezonanse





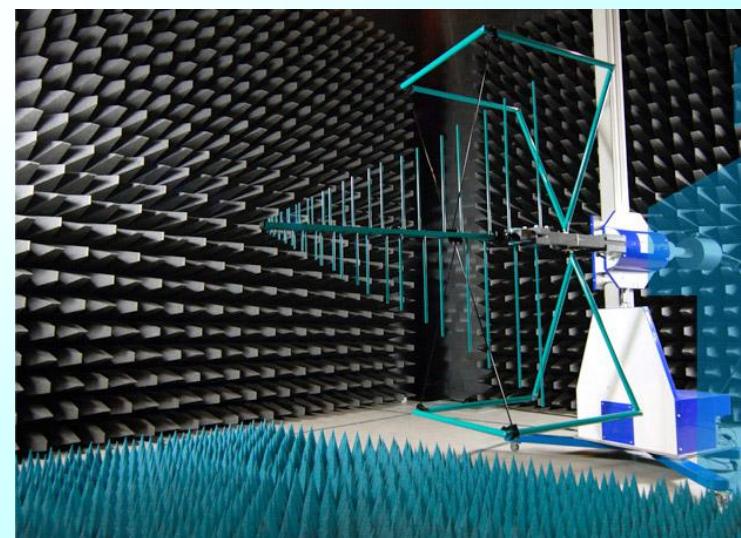
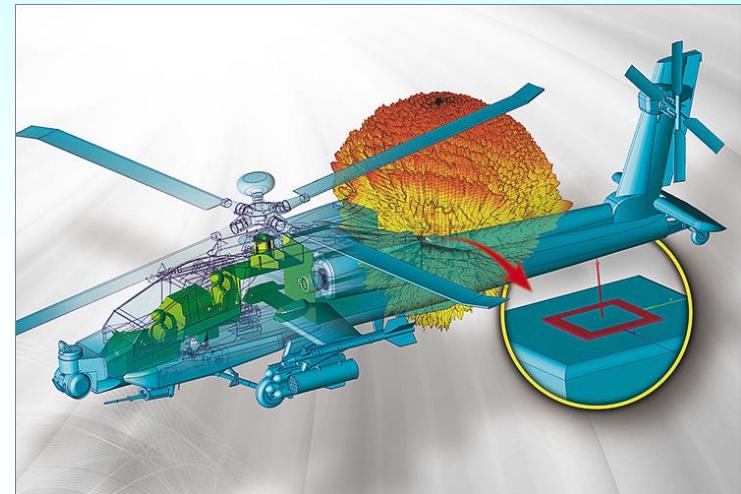
Modul mikrotalsna tehnika

1. Elektromagnetika
2. Antene i prostiranje radiotalasa
3. Mikrotalasna tehnika
4. Metod momenata u elektromagneticima
5. Metod konačnih elemenata u elektromagneticima
6. Analiza i sinteza antena
7. Elektromagnetska kompatibilnost i integritet signala
8. Mikrotalasna elektronika
9. Mikrotalasna pasivna kola
10. RF i mikrotalasni filtri
11. Napredne tehnike za mikrotalasno formiranje slika
12. Memristori i memristivni sistemi



Modul Mikrotalasna tehnika

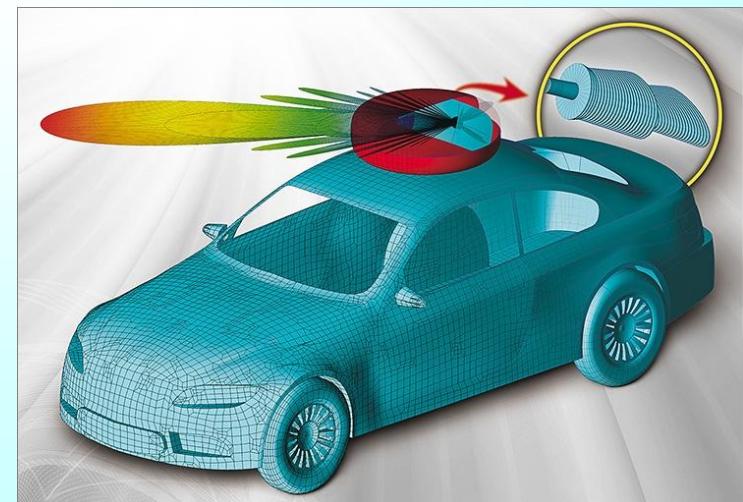
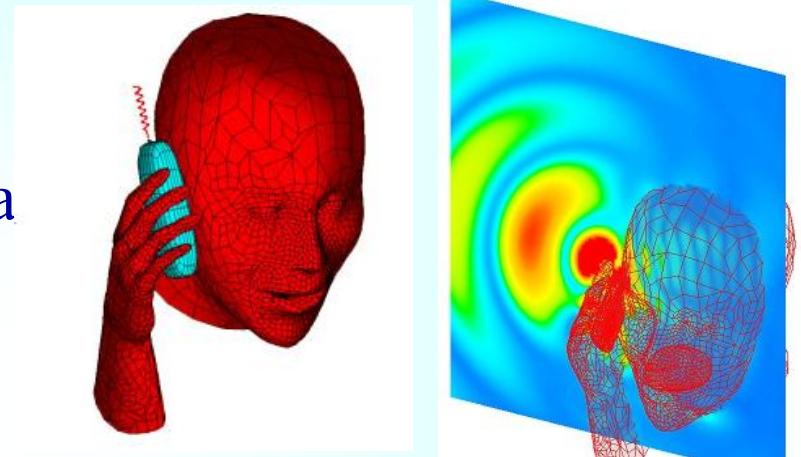
- Razvoj softvera za elektromagnetska modelovanja
- Dizajn komponenti za bežične komunikacije i radarske sisteme
- Elektromagnetska kompatibilnost
- Dizajn sistema i razvoj algoritama za generisanje slika korišćenjem magnetske rezonanse i mikrotalasnog formiranja slika





O našem radu

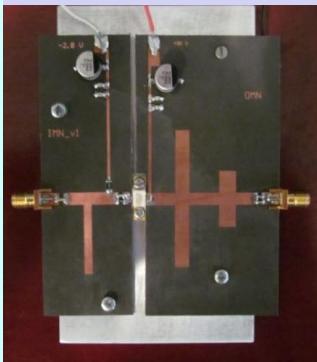
- Zračenje električnih uređaja
- Uticaj EM polja na biološka tkiva
- Propagacija radiotalasa
- Projekti
- Saradnja sa studentima





Studentski radovi

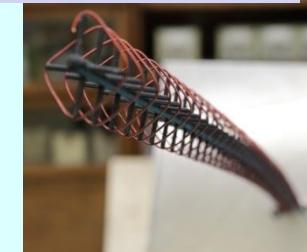
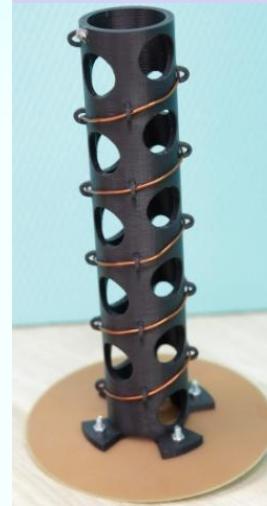
Pojačavači



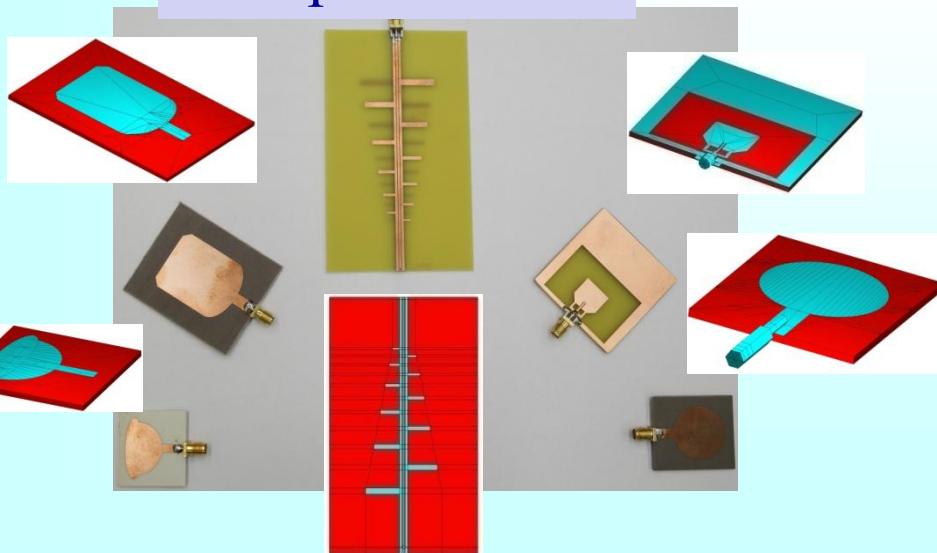
Filtri



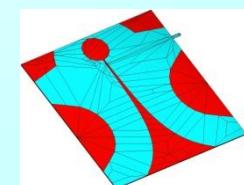
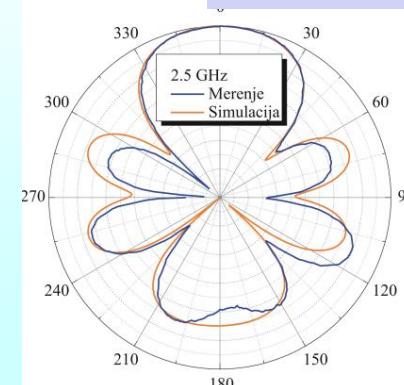
3-D Štampane antene



Štampane antene



Merenja





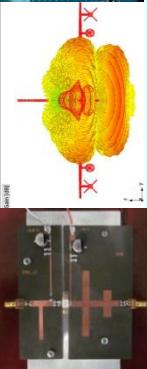
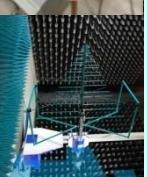
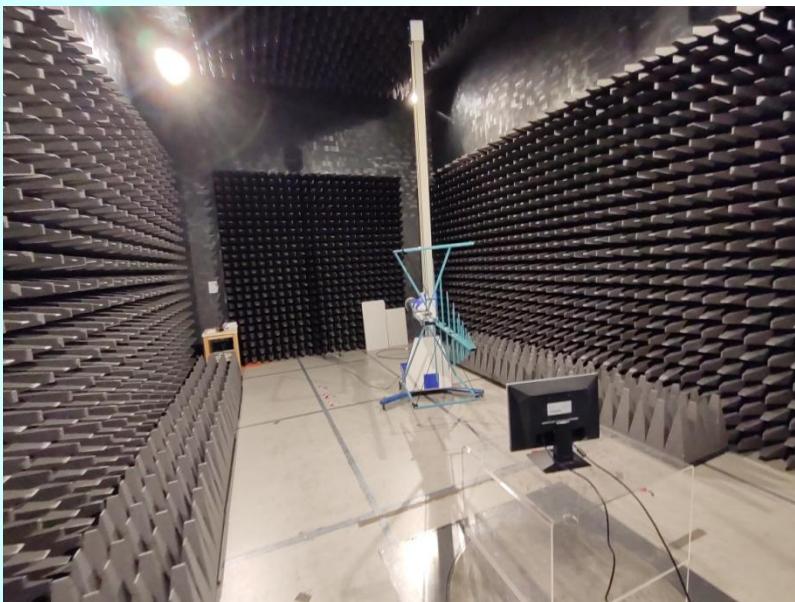
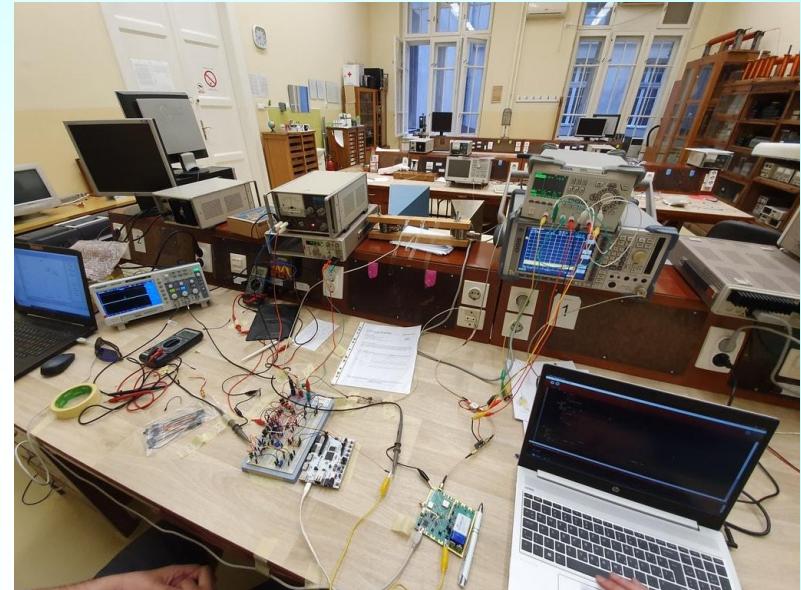
Nauka i karijera

- Karijere naših studenata u Srbiji:
 - WIPL-D d.o.o, IMTEL Komunikacije a.d., Emisiona Tehnika i veze a.d., ENDAVA/PStech d.o.o., Telekom, Yettel, A1, Ericsson, Bosch a.d., Institut za fiziku, Institut Mihajlo Pupin, Idvorsky Laboratorije, Tehnički opitni centar, Institut bezbednosti, Microsoft, Novel, UBCConnect INT d.o.o, Vlatacom...
- Naučna saradnja sa stranim institucijama:
 - 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 Politecnico de Madrid...
- Karijere naših studenata u insotranstvu:
 - INTEL, Hewlett Packard, Bomdardier, Airbus, Nokia, Skyworks solutions



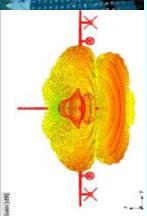
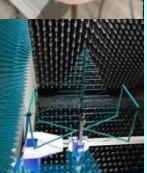
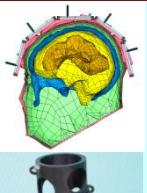


Rad u laboratorijama





Saradnja sa kompanijama i učešće na naučnim skupovima





Softver za EM simulacije



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WIPL-D Pro CAD 2022

New version released!

- Assembly: The new instance at the top of topological hierarchy
- Component library, comprising:
 - Simulation-ready antennas
 - Platforms
- Improved import of CAD models
- And much more...

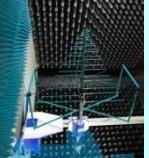
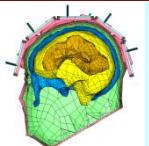
Check out [the release highlights](#) for more info.



WIPL-D Pro

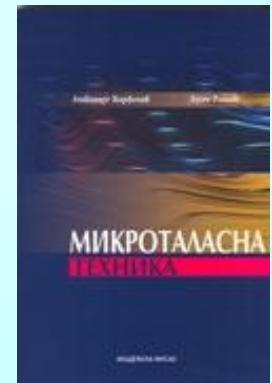
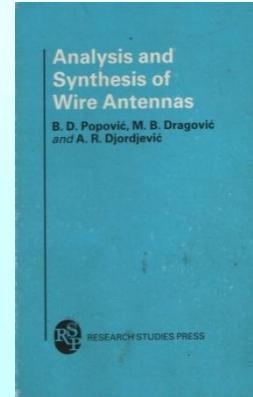
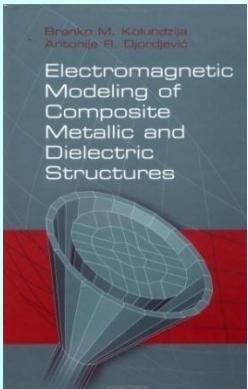


WIPL-D Pro CAD



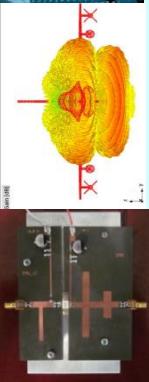
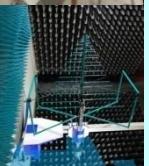
Naše knjige

1. B.M. Kolundžija and A.R.Djordjević, ***Electromagnetic modeling of composite metallic and dielectric structures***, Boston, Artech House, 2002.
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. Tasic, and B.L. Evans, ***Filter Design for Signal Processing using MATLAB® and Mathematica®***, Upper Saddle River, NJ, Prentice Hall, 2001.
4. A. Đorđević, ***Elektromagnetika***, Akademska Misao, Beograd, 2008.
5. A. Đorđević i D. Tošić, ***Mikrotalasna Tehnika***, Akademska Misao, Beograd 2010.

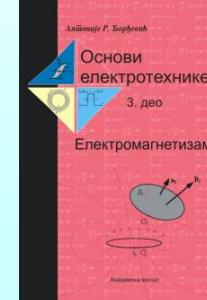
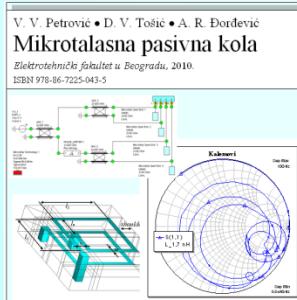




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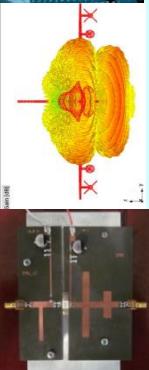
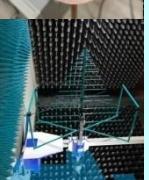


6. V. V. Petrović, D. V. Tošić, i A. R. Đorđević, **Mikrotalasna Pasivna Kola**, Univerzitet u Beogradu, Elektrotehnički fakultet, Beograd, 2010.
7. A. Đorđević i D. Olćan, **Ispitivanje elektromagnetske kompatibilnosti**, Akademска misao, Beograd, 2012.
8. A. Đorđević, **Osnovi elektrotehnike**, delovi 1-4, Akademска misao, Beograd, 2012.
9. M. Ilić i S. Savić, **Mikrotalasna Elektronika**, Akademска misao, Beograd, 2017.
10. M. Stevanović, **Formiranje slika pomoću mikrotalasa**, Akademска misao, Beograd, 2021.

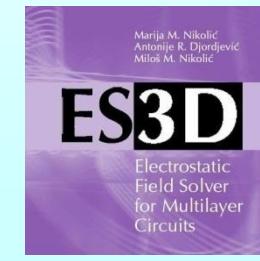
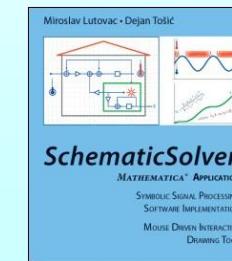
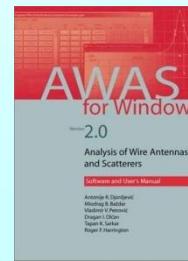
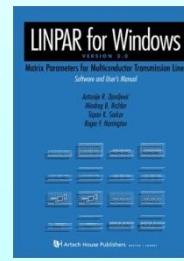
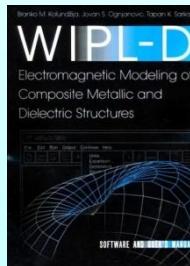




Naš softver



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. Tosic, **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.





Naši uspesi

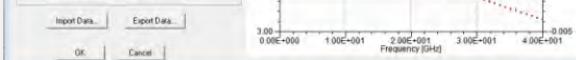


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- Kursevi
- Softver
- Naučni i komercijalni projekti
- Patenti
- IEEE MTT Microwave Prize



Djordjevic-Sarkar Method

- 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.

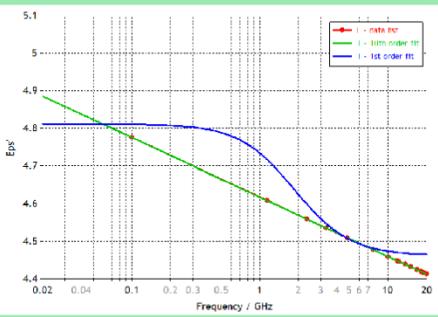


ANSYS

CST – Computer Simulation Technology Materials - dielectrics



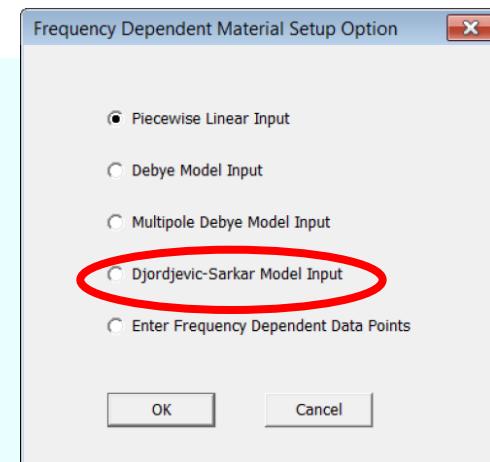
- Dielectric properties extracted from measurements need to be **passive** and **causal**
- Common PCB/package dielectric materials exhibit gradual change in dielectric constant over a very broadband frequency range (Debye models with many relaxation terms)



- Cole-Cole

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

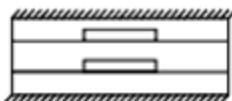
- **Djordjevic Sarkar (#)** - wideband Debye model; the model captures the physics of the composite dielectrics, it is causal and requires just two coefficient to describe it



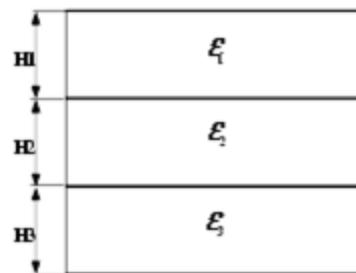
(#) A.R. Djordjevic, R.M. Biljic, V.D. Likar-Smiljanic, Tapan K. Sarkar, " Wideband Frequency-Domain Characterization of FR-4 and Time-Domain Causality", IEEE TRANSACTIONS ON ELECTROMAGNETIC COMPATIBILITY, VOL. 43, NO. 4, NOVEMBER 2001

3-Layer Stripline Substrate Definition: SSUBT

Symbol



Topology



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[1] B. Bazda, A.R. Djordjevic, R.F. Harrington, and T.K. Sarkar, "Evaluation of quasi-static matrix parameters for multiconductor transmission lines using ...
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[Microstrip Interdigital Capacitor, \(No Steps at Ports\) \(EM Quasi-Static\)](https://awrcorp.com/download/faq/english/docs/Elements/micap1.htm)
[1] B. Bazda, A.R. Djordjevic, R.F. Harrington, and T.K. Sarkar, "Evaluation of quasi-static matrix parameters for multiconductor transmission lines using ...
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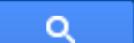
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Elliptic Rational Function

Elliptic rational functions $R_n(\xi, x)$ are a special class of rational functions that have nice properties for approximating other functions over 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

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

A. I. J. Stewart et al., 2001.

SEE ALSO:

[Chebyshev Polynomial of the First Kind](#), [Elliptic Function](#), [Rational Function](#)

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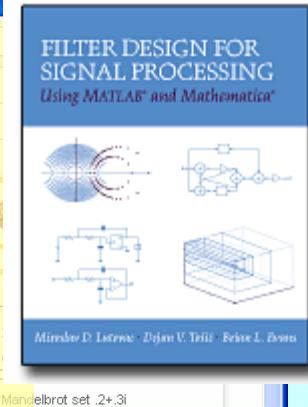
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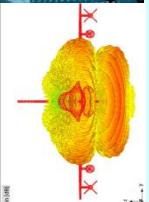
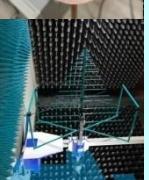
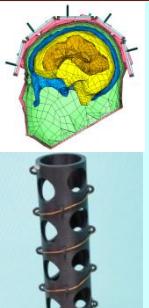


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the shoulders of giants.





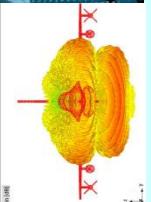
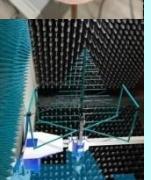
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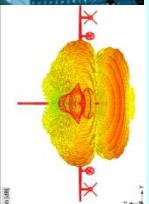
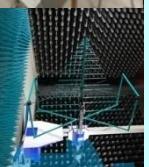
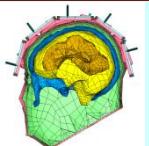
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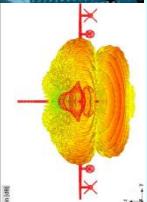
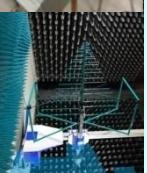
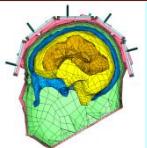
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