

Esmaeel Tahanian

Earned Degrees

- 2011 2016 **PhD in Communication Engineering,** *Shahed University, Tehran, Iran.*
- 2007 2009 M.Sc. in Communication Engineering, K. N. Toosi University of Technology, Tehran, Iran.
- 2003 2007 **B.Sc. in Electrical Engineering**, K. N. Toosi University of Technology, Tehran, Iran.

Research Interests

- Optical Networks & Wireless Networks.
- High Frequency and High Speed Circuits.
- Microwave, mm-Wave and THz Devices and Circuits.
- Vaccum Electron Device : High frequency Tubes (TWT, Klystron and Magnetron) and High power Amplifiers (TWT and Klystron)
- Electromanetic Wave Propagation in Modern Wireless Systems.
- The Study of Electromagnetic Wave Effects on the Human Body.
- Electromagnetic Band Gap(EBG), Photonic Band Gap(PBG) Materials and Plasmonic Structures.

Publications

Journals

• **E.Tahanian** and G.Dadashzadeh, "A Novel Gap-Groove Folded-Waveguide Slow-Wave Structure for G-Band Traveling-Wave Tube" **IEEE Transactions on Electron Devices, VOL. 63, NO. 7, July 2016**.

• **E.Tahanian** and G.R.Dadashzadeh, "Two Novel Kinds of the G-Band Travelling-Wave Tubes with Multiple Gap-Groove Folded-Waveguides" **IEEE Transactions on Plasma Science, Vol. 45, No. 2, February 2017.**

• E. Tahanian, S. Chamaani and S. A. Mirtaheri, "Compact ultrawideband bandpass filters using EBG", Electronics letters, 16th September 2010, Vol. 46, No. 19.

• **E.Tahanian**, G.Dadashzadeh and M.Khorshidi, "Pierce Gain Analysis for Sheet Beam Multiple Circuit Traveling Wave Amplifiers," Journal of electromagnetic wave and application, Vol. 29, No. 5, March 2015.

• **E.Tahanian**, G.R.Dadashzadeh, "Gain Analysis of the Gap-Groove Folded-Waveguide Travelling-Wave Tube," Journal of electromagnetic wave and application, Published online: 17 Feb 2017.

• **E.Tahanian** and M.R.Khorshidi, "A Compact Triple Band-Notched UWB Antenna Using Sinusoidal EBG," **Recent advances in electrical engineering**, 2014, Vol. 7, No. 1.

• M. Khorshidi, E. Tahanian, "A Novel Band-Reject UWB Antenna with Stable Omnidirectional Behavior", **Progress in electromagnetics research C**, Vol 59, 31-40, 2015.

• E.Tahanian, G.R.Dadashzadeh, "An Improved U-Shaped Microstrip Meander-Line Slow Wave Structure for High Efficiency G-band Traveling Wave Tubes," **Recent advances in electrical engineering**, Vol. 9, January 2016.

• E.Tahanian and H.Hasani, "Very compact UWB antenna with Group delay Improvement", Serbian journal of electrical engineering , Vol. 12, No. 2, June 2015.

Conferences

• **E.Tahanian** and G.Dadashzadeh, "A Novel Ridge-Gap-Waveguide Slow-Wave Structure for G-Band Travelling-Wave Tube", IST2016, Tehran.

• **E. Tahanian**, S. Chamaani and S. A. Mirtaheri, "Very Compact Ultra-Wideband Microstrip-Line Bandpass Filters Using EBG Embedded Multiple-Mode Resonator", **Accepted** by *Asia–Pacific Microw. Conf.*, Dec. 2009.

• **E.Tahanian**, G.Dadashzadeh and H.R.Taghvaee, "Simple Near Exact Image Solution for Vertical Antenna Above Lossy Ground Using Stationary Phase Approximation" **Accepted** by **Nemo 2014, Pavia, Italy.**

Presented Lecturers

- Spring 2013 "Terahertz Technology", Shahed University, Tehran, Iran.
- Fall 2012 "Cross Talk in Microwave Circuits", Shahed University.
- Fall 2008" Metamaterial Applications in Microwave Engineering",
K. N. Toosi University of Technology, Tehran, Iran.
- **Spring 2008** "Rain Effects on Radio Wave Propagation", K. N. Toosi University of Technology, Tehran, Iran.

Professional Experiences

2012	Design and Simulation of X-Band Magnetron , Shahid Ghandi Research Center, Tehran, Iran.
2012	Design and Simulation of L-Band Klystron , Shahid Ghandi Research Center, Tehran, Iran.
2013	Design and Simulation of a Terahertz Transmitter , Shahed University, Tehran, Iran.
2012-2013	Design and Simulation of Active Denial System (ADS) , Shahid Ghandi Research Center, Tehran, Iran.
2016	Design and Simulation of Wideband Network Cables