

# Wahab Mohyuddin

Assistant Professor  
Pakistan Navy Engineering College

Email: wahab.mohyuddin@pnec.nust.edu.pk  
Contact: 2134505311  
LinkedIn:



## About

Dr. Wahab Mohyuddin is working as Assistant Professor in the Pakistan Navy Engineering College. Dr. Wahab Mohyuddin has a PhD in Electronics Engineering. Dr. Wahab Mohyuddin has published 28 research articles & conference papers having a citation count of 815, carried out 0 projects and filed 0 intellectual property.

## Qualifications

<b>PhD in Electronics Engineering</b> Kyungpook National University , South Korea	2014 - 2018
<b>MS in Electronics Engineering</b> Kyungpook National University , South Korea	2012 - 2014
<b>BS in Telecommunication Engineering</b> National University of Computer & Emerging Sciences , Pakistan	2007 - 2011
<b>F.Sc in Pre-Engineering</b> Board of Intermediate Education, Karachi , Pakistan	2005 - 2007
<b>Matric (SSC) in Science</b> Board of Secondary Education, Karachi , Pakistan	2003 - 2005

## Experience

<b>Assistant Professor</b> Pakistan Navy Engineering College	2025- Present
<b>Defence Faculty</b> Pakistan Navy Engineering College	2021 - 2025
<b>Assistant Professor</b> Research Institute For Microwave And Millimeter-Wave Studies	2021 - 2021
<b>Assistant Professor</b> Research Institute For Microwave And Millimeter-Wave Studies	2019 - 2021
<b>Post Doctorate Researcher</b> Kyungpook National University , KNU South Korea	2018 - 2019
<b>Research Assistant</b> Kyungpook National University , KNU South Korea	2012 - 2018
<b>Training Engineering</b> Teletec Enterprises , Karachi	2011 - 2012

## Professional Memberships

- PEC
- HEC EQUIVALANCE
- HEC EQUIVALANCE

## Research Articles

<b>Electric Vehicle Battery Temperature Control Using Fuzzy Logic</b> <i>Lubna Moin Fayyaz Ahmed Mohammad Farhan Khan Wahab Mohyuddin Mohammad Abdullah</i>	2024
--	------

**Impact Factor:** 0.600 | **Quartile:** 4 | **Citations:** 2

**DOI:** <https://doi.org/10.3103/S0146411624700135>

**Compact Wideband Coplanar Stripline-to-Microstrip Line Transition Using a Bended Structure on a Two-Layered Substrate**

2021

Gwan Hui Lee Wahab Mohyuddin Sachin Kumar Hyun Chul Choi Kang Wook Kim

Electronics , Volume 10, Issue 11, Article Number 1272

**Impact Factor:** 2.690 | **Quartile:** 3 | **Citations:** 2

**DOI:** <https://doi.org/10.3390/electronics10111272>

**Generalized Design Technique of Ultra-Wide-band Transitions for Quasi-TEM Planar Trans-mission Lines Based on Analytical Models**

2021

Gwan Hui Lee Sachin Kumar Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim

IEEE Access , Volume 9, Pages 52619-52633

**Impact Factor:** 3.476 | **Quartile:** 2 | **Citations:** 8

**DOI:** [10.1109/ACCESS.2021.3069870](https://doi.org/10.1109/ACCESS.2021.3069870)

**Design of an ultra-wideband coplanar strip-to-parallel stripline transition using an analytical model based on conformal mapping**

2021

Gwan Hui Lee Dong Hwi Kim Wahab Mohyuddin Sachin Kumar Hyun Chul Choi Kang Wook Kim

Microwave and Optical Technology Letters , Volume 63, Issue 4, Pages 1054-1060

**Impact Factor:** 1.311 | **Quartile:** 4 | **Citations:** 3

**DOI:** <https://doi.org/10.1002/mop.32707>

**Compact Ultra-Wideband Phase Inverter Using Microstrip-CPW-Slotline Transitions**

2021

Wahab Mohyuddin Gwan Hui Lee Dong Sik Woo Hyun Chul Choi Kang Wook Kim

Electronics , Volume 10(3), Article Number 252

**Impact Factor:** 2.690 | **Quartile:** 3 | **Citations:** 4

**DOI:** <https://doi.org/10.3390/electronics10030252>

**A Design of a Dual-Band Bandpass Filter Based on Modal Analysis for Modern Communication Systems**

2020

Ali Lalbakhsh Seyed Morteza Alizadeh Amirhossein Ghaderi Alireza Golestanifar Bahare Mohamadzade Mohammad (Behdad) Jamshidi Kaushik Mandal

Wahab Mohyuddin

Electronics (Switzerland) , Volume 9(11), Article Number 1770

**Impact Factor:** 2.397 | **Quartile:** 3 | **Citations:** 63

**DOI:** <https://doi.org/10.3390/electronics9111770>

**Design of an Ultra-Wideband Microstrip-to-Slotline Transition on Low-Permittivity Substrate**

2020

Jung Seok Lee Gwan Hui Lee Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim

Electronics , Volume 9(8), Article Number 1329

**Impact Factor:** 2.397 | **Quartile:** 3 | **Citations:** 4

**DOI:** <https://doi.org/10.3390/electronics9081329>

**A Compact C-Band Bandpass Filter with an Adjustable Dual-Band Suitable for Satellite Communication Systems**

2020

Ali Lalbakhsh Amirhossein Ghaderi Wahab Mohyuddin Roy BVB Simorangkir Nima Bayat-Makou Muhammad Sajjad Ahmad Gwan Hui Lee Kang Wook Kim

Electronics , Volume 9(7), Article Number 1088

**Impact Factor:** 2.397 | **Quartile:** 3 | **Citations:** 46

**DOI:** <https://doi.org/10.3390/electronics9071088>

**Artificial Intelligence and COVID-19: Deep Learning Approaches for Diagnosis and Treatment**

2020

Mohammad Jamshidi Ali Lalbakhsh Jakub Talla Zdenek Peroutka Farimah Hadjilooei Pedram Lalbakhsh Morteza Jamshidi Luigi La Spada Mirhamed

Mirmozafari Mojgan Dehghani Asal Sabet Saeed Roshani SOBHAN ROSHANI Nima Bayat-Makou Bahare Mohamadzade Zahra Malek Alireza Jamshidi

Sarah Kiani Hamed Hashemi-Dezaki Wahab Mohyuddin

IEEE Access , Volume 8, Pages 109581-109595

**Impact Factor:** 3.367 | **Quartile:** 2 | **Citations:** 458

**DOI:** [10.1109/ACCESS.2020.3001973](https://doi.org/10.1109/ACCESS.2020.3001973)

**Wideband bended CPS-to-microstrip transition for millimeter-wave antenna-detector module**

2020

Gwan Hui Lee Dong Hwi Kim Wahab Mohyuddin Sachin Kumar Hyun Chul Choi Kang Wook Kim

Microwave and Optical Technology Letters , Volume 62, Issue 5, Pages 1991-1996

**Impact Factor:** 1.392 | **Quartile:** 4 | **Citations:** 2

**DOI:** <https://doi.org/10.1002/mop.32255>

<b>A compact four-port UWB MIMO antenna with connected ground and wide axial ratio bandwidth</b> <i>Sachin Kumar Gwan Hui Lee Dong Hwi Kim Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>International Journal of Microwave and Wireless Technologies</i> , Volume:12, Issue:1, Pages 75-85 <b>Impact Factor:</b> 1.064   <b>Quartile:</b> 4   <b>Citations:</b> 41 <b>DOI:</b> <a href="https://doi.org/10.1017/S1759078719000874">https://doi.org/10.1017/S1759078719000874</a>	2020
<b>Multiple-input-multiple-output/diversity antenna with dual band-notched characteristics for ultra-wideband applications</b> <i>Sachin Kumar Gwan Hui Lee Dong Hwi Kim Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>Microwave and Optical Technology Letters</i> , Volume 62, Issue 1, Pages 336-345 <b>Impact Factor:</b> 1.392   <b>Quartile:</b> 4   <b>Citations:</b> 60 <b>DOI:</b> <a href="https://doi.org/10.1002/mop.32012">https://doi.org/10.1002/mop.32012</a>	2020
<b>Comparative study of square and circular loop frequency selective surfaces for millimeter-wave imaging diagnostics systems</b> <i>Wahab Mohyuddin Dong Hwi Kim Hyun Chul Choi Kang Wook Ki,</i> <i>Sensors</i> , Volume:18, Issue:9, Article Number 3079 <b>Impact Factor:</b> 3.031   <b>Quartile:</b> 1   <b>Citations:</b> 11 <b>DOI:</b> <a href="https://doi.org/10.3390/s18093079">https://doi.org/10.3390/s18093079</a>	2018
<b>Asymmetric Ultra-Wideband Microstrip-to-Coplanar Stripline Transition</b> <i>Gwan Hui Lee Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>IEEE Microwave and Wireless Components Letters</i> , Volume:28, Issue:5, Pages 386-388 <b>Impact Factor:</b> 2.374   <b>Quartile:</b> 2   <b>Citations:</b> 19 <b>DOI:</b> 10.1109/LMWC.2018.2822723	2018
<b>Design of a suspended stripline narrow bandpass filter with ultrawideband harmonic suppression</b> <i>Ju Seong Park Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>International Journal of Antennas and Propagation</i> , Volume 2018, Article ID 9029240, 6 pages <b>Impact Factor:</b> 1.347   <b>Quartile:</b> 3   <b>Citations:</b> 2 <b>DOI:</b> <a href="https://doi.org/10.1155/2018/9029240">https://doi.org/10.1155/2018/9029240</a>	2018
<b>Dual notch band UWB antenna with improved notch characteristics</b> <i>Amir Sohail Khurram Saleem Alimgeer Adnan Iftikhar Bilal Ijaz Kang Wook Kim Wahab Mohyuddin</i> <i>Microwave and Optical Technology Letters</i> , Volume:60, Issue:4, Pages 925-930 <b>Impact Factor:</b> 0.933   <b>Quartile:</b> 4   <b>Citations:</b> 55 <b>DOI:</b> 10.1002/mop.31071	2018
<b>Design of A Narrow Bandpass Filter with Wideband Harmonic Suppression Using Hairpin Step Impedance Resonators</b> <i>Ju Seong Park Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>Journal of Korean Institute of Electromagnetic Engineering and Science</i> , Volume 29(3), Pages 151-158 <b>Impact Factor:</b> N/A <b>DOI:</b> <a href="http://dx.doi.org/10.5515/KJKIEES.2018.29.3.151">http://dx.doi.org/10.5515/KJKIEES.2018.29.3.151</a>	2018
<b>A practical double-sided frequency selective surface for millimeter-wave applications</b> <i>Wahab Mohyuddin Dong Sik Woo Hyun Chul Choi Kang Wook Kim</i> <i>Review of Scientific Instruments</i> , Volume:89, Issue:2, Article Number 024703 <b>Impact Factor:</b> 1.587   <b>Quartile:</b> 3   <b>Citations:</b> 8 <b>DOI:</b> <a href="https://doi.org/10.1063/1.5023406">https://doi.org/10.1063/1.5023406</a>	2018
<b>4 × 4 MIMO antenna design with folded ground plane for 2.4 GHz WLAN applications</b> <i>Muhammad Sajjad Ahmad Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim</i> <i>Microwave and Optical Technology Letters</i> , Volume:60, Issue:2, Pages 395-399 <b>Impact Factor:</b> 0.933   <b>Quartile:</b> 4   <b>Citations:</b> 4 <b>DOI:</b> 10.1002/mop.30969	2018
<b>Design of a compact single-balanced mixer for UWB applications</b> <i>Wahab Mohyuddin In Bok Kim Hyun Chul Choi Kang Wook Kim</i> <i>Journal of Electromagnetic Engineering and Science</i> , Volume:17, Issue:2, Pages 65-70 <b>Impact Factor:</b> N/A   <b>Citations:</b> 5 <b>DOI:</b> <a href="http://dx.doi.org/10.5515/JKIEES.2017.17.2.65">http://dx.doi.org/10.5515/JKIEES.2017.17.2.65</a>	2017
<b>Design of a 75-140 GHz high-pass printed circuit board dichroic filter</b> <i>Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim Dong Hwi Kim Dong Sik Woo</i>	2017

**Impact Factor:** 1.428 | **Quartile:** 3 | **Citations:** 10

**DOI:** <https://doi.org/10.1063/1.4977935>

**A Design of Improved 100 GHz Lens Antennas for the ECEI System**

2016

Gwan Hui Lee Sung Kyun Kim Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim

*Journal of Korean Institute of Electromagnetic Engineering and Science*, Volume 27(9), Pages 817-824

**Impact Factor:** N/A

**DOI:** 10.5515/KJKIEES.2016.27.9.817

**Design of a 170 GHz Notch Filter for the KSTAR ECE Imaging Sensor Application**

2016

Wahab Mohyuddin Dong Sik Woo Sung Kyun Kim Kang Wook Kim Hyun Chul Choi

*Journal of Sensor Science and Technology*, Volume 25, Issue 1, Pages 8-12

**Impact Factor:** N/A

**DOI:** 10.5369/JSST.2016.25.1.8

**Compact wideband antiparallel diode frequency triplers utilizing planar transitions**

2015

Wahab Mohyuddin Kang Wook Kim Hyun Chul Choi

*International Journal of Antennas and Propagation*, Volume 2015, Article ID 373179, 7 pages

**Impact Factor:** 0.750 | **Quartile:** 3 | **Citations:** 3

**DOI:** <http://dx.doi.org/10.1155/2015/373179>

**A compact wideband ring mixer utilizing a pair of PLANAR transitions for phase inversion**

2014

Wahab Mohyuddin Young-Gon Kim Dong Sik Woo Hyun Chul Choi Kang Wook Kim

*Microwave and Optical Technology Letters*, Volume:56, Issue:8, Pages 1919-1922

**Impact Factor:** 0.568 | **Quartile:** 4 | **Citations:** 5

**DOI:** <https://doi.org/10.1002/mop.28478>

## Conference Proceedings

**Design of Programmable Digital Control Attenuator for Microwave Receivers**

2023

Usama Bin Zaheer Wahab Mohyuddin M. Murtaza Magsi Muhammad Abdullah Aleem Mushtaq

*2023 2nd International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering, ETECTE 2023 - Proceedings*  
res.country(177,)

**Citations:** N/A

**DOI:** 10.1109/ETECTE59617.2023.10396696

**A Broadband Planar Circularly-Polarized Monopole Antenna**

2019

Sachin Kumar Gwan Hui Lee Dong Hwi Kim Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim Sachin Kumar Gwan Hui Lee Dong Hwi Kim Wahab

Mohyuddin Hyun Chul Choi Kang Wook Kim

*IEEE Asia-Pacific Microwave Conference (APMC)*, res.country(197,)

**Citations:** N/A

**DOI:** 10.1109/APMC46564.2019.9038400

**High-Gain Dipole Antenna using a Double-Sided Dielectric Lens**

2019

Gwan Hui Lee Sachin Kumar Dong Hwi Kim Wahab Mohyuddin Hyun Chul Choi Kang Wook Kim Gwan Hui Lee Sachin Kumar Dong Hwi Kim Wahab

Mohyuddin Hyun Chul Choi Kang Wook Kim

*IEEE Asia-Pacific Microwave Conference (APMC)*, res.country(197,)

**Citations:** N/A

**DOI:** 10.1109/APMC46564.2019.9038493