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**Education**

- **Ph.D. 1997:** Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan.

**Thesis Title:** Scattering of Electromagnetic Waves from a Buried Cylinder

- **M.Phil. 1993:** Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan.
- **M.Sc. 1991:** Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan.

**Experience**

- **Professor (Tenured)**, Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan (November 2013).
- **Associate Prof. (TTS)**, Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan (July 2007).
- **Associate Prof. (BPS)**, Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan (Jan. 2007 ).
- **Assistant Prof.**, Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan (Feb. 1998 to Jan. 2007).
- **Visiting scientist**, Department of information science, Toho University Funabashi, Japan, May 2000 to August 2001.
- **Visiting faculty member**, Department of Electronics, Quaid-i-Azam University, Islamabad, Pakistan (1995 and 1997).

## RESEARCH PUBLICATIONS

### 1998

- 1 Q. A. Naqvi and A. A. Rizvi, Low contrast circular cylinder buried in a grounded dielectric layer, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 12, 1527-1536, 1998.
- 2 Q. A. Naqvi, A. A. Rizvi and M.A. Ashraf, Asymptotic solutions for the scattered field of plane wave by a cylindrical obstacle buried in a grounded dielectric layer, Abstract, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 12, 1579-1580, 1998.
- Q. A. Naqvi, A. A. Rizvi and M.A. Ashraf, Asymptotic solutions for the scattered field of plane wave by a cylindrical obstacle buried in a grounded dielectric layer, Progress in Electromagnetics Research, PIER 20, 249-262, 1998.

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- 3 Q. A. Naqvi and A. A. Rizvi, Fractional solutions for the Helmholtz's equation in a multilayered geometry, Abstract, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 13, 815-816, 1999.
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- 4 Q. A. Naqvi and A. A. Rizvi, Fractional dual solutions and corresponding sources, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 13, 71-72, 2000.
- Q. A. Naqvi and A. A. Rizvi, Fractional dual solutions and corresponding sources, Progress in Electromagnetics Research, PIER 25, 223-238, 2000.
- 5 Q. A. Naqvi, A. A. Rizvi and Z. Yaqoob, Scattering of electromagnetic waves from a deeply buried circular cylinder, Abstract, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 14, 521-522, 2000.
- Q. A. Naqvi, A. A. Rizvi and Z. Yaqoob, Scattering of electromagnetic waves from a deeply buried circular cylinder, Progress in Electromagnetics Research, PIER 27, 37-59, 2000.

- 6 Q. A. Naqvi and A. A. Rizvi, Scattering from a cylindrical object buried in a geometry with parallel plane interfaces, Abstract, Journal of Electromagnetic Waves and Applications, JEMWA, Vol. 14, 519-520, 2000.
- Q. A. Naqvi and A. A. Rizvi, Scattering from a cylindrical object buried in a geometry with parallel plane interfaces, Progress in Electromagnetics Research, PIER 27, 19-35, 2000.
- 7 Q. A. Naqvi G. Murtaza and A. A. Rizvi, Fractional dual solutions to the Maxwell equations in homogeneous chiral media, Optics Communications 178, 27-30, 2000.
- 8 Q. A. Naqvi, A. A. Rizvi and Z. Yaqoob, Corrections to "Asymptotic solutions for the scattered fields of plane wave by a cylindrical obstacle buried in a dielectric half-space", IEEE Transactions on Antennas and Wave Propagation, Vol. 48, no. 5, 2000.

#### 2002

- 9 Q. A. Naqvi, K. Hongo and H. Kobayashi, Surface fields of an impedance wedge at skew incidence, Electromagnetics, 22, 209-233, 2002.

#### 2003

- 10 Q. A. Naqvi, K. Hongo and H. Kobayashi, Scattering from an impedance polygonal cylinder at skew incidence using the physical theory of diffraction with transition currents approach, Electromagnetics, 23, 293-314, 2003.
- 11 Q. A. Naqvi and M. Abbas, Intermediate zones in electromagnetism for dielectric half space geometry: planner observations, Optics Communications, 217, pp: 15-21, 2003.
- 12 Q. A. Naqvi and M. Abbas, Fractional duality and metamaterials with negative permittivity and permeability, Optics Communications, 227, pp: 143-146, 2003.

#### 2004

- 13 Q. A. Naqvi and K. Hongo, Surface fields of an anisotropic impedance wedge at skew incidence, Electromagnetics, 24, 339-356, 2004.
- 14 Q. A. Naqvi and M. Abbas, Complex and higher order fractional curl operator in electromagnetics, Optics Communications, 241, pp: 349-355, 2004.

## 2006

- 15 A. Hussain and Q. A. Naqvi, Fractional curl operator in chiral medium and fractional transmission line, Progress in Electromagnetics Research, PIER, 59, 319-335, 2006.
- 16 A. Hussain, Saima Ishfaq and Q. A. Naqvi, Fractional curl operator and fractional waveguides, Progress in Electromagnetics Research, PIER, 63, 319-335, 2006.
- 17 Amjad Imran, Q. A. Naqvi, and Kohei Hongo, Diffraction of plane wave by two parallel slits in an infinitely long impedance plane using the method of Kobayashi Potential, Progress In Electromagnetics Research, PIER, 63, 107-123, 2006
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## 2007

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- 68 T. Rahim, M. J. Mughal, Q. A. Naqvi, and M. Faryad, Paraboloidal reflector in chiral medium supporting simultaneously positive phase velocity and negative phase velocity, *Progress In Electromagnetics Research*, PIER 92, 223-234, 2009
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- 78 Aftab Naqvi, A. Hussain, and Q. A. Naqvi, Waves in fractional dual planar waveguides containing chiral nihility metamaterial, J. of Electromagn. Waves and Appl., 2010
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- 91 S. R. Qamar, A. Naqvi, A. A. Syed, and Q. A. Naqvi, Radiation characteristics of elementary sources located in unbounded chiral nihility metamaterial, Journal of Electromagnetic Waves and Applications, JEMWA, vol.25, vol. 713-722, 2011
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### Research Activities/Proposals

- 1 **Proposal title:** "To strengthen the research capacity of the Electronics Department" under International Collaboration Research Initiative Grant(ICRIG), program of Higher Education Commission(HEC).  
**Activity:** Arranged visit of Prof. Kohei Hongo, Toho University Japan, to Electronics Department, Quaid-i-Azam University Islamabad. Duration from 21st, October 2004 to 25th, December 2004.
- 2 "Lecture Series Diffraction of Electromagnetic Waves from Conducting and Impedance Wedges", GIK Institute of Technology. Organized by Dr. Nassir-ud-Din Gohar, Dr. M.J. Mughal and Dr. Q. A. Naqvi. Dec. 2004.  
**Instructor:** Prof. Kohei Hongo, Toho University Japan.
- 3 "Lecture Series on Guided Wave Optics" by Department of Electronics, National Center for Physics and Pakistan Science Foundation.  
**Instructor:** Prof. Masahiro Hashimoto, Electro-Communication University, Osaka, Japan. Duration from 15th, November 2005 to 23rd, November 2005.
- 4 **Proposal title:** "Lecture series on Kobayashi Potential and High Frequency Electromagnetics" by National Center for Physics and Department of Electronics.  
**Instructor:** Prof. Kohei Hongo, Toho University Japan. Duration from 15th November, 2005 to 15th December, 2005.
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