

## ***José Luis Ramos Quirarte***

### *Education.*

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- **Ph.D. in High Frequencies Engineering.** Chalmers University of Technology, Göteborg, Sweden, 1992.
- **Science Master in Electrical Engineering, specialty on Telecommunications.** CINVESTAV-IPN, D.F., Mexico, 1985.
- **Communications and Electronics Engineer.** Universidad de Guadalajara, Mexico, 1980.

### *Other research activities.*

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- Member of the Mexican Researchers National System (SNI, candidato), 1993-1996.
- Profile PROMEP : 1997-2000, 2000-2003, 2003-2006.
- Responsible of several research projects in the Electronic Department at the Universidad de Guadalajara.
- Leader of the Academic group “Electrónica de Alta Frecuencia”.
- Reviewer member for CONACYT de 1994 a 1998.
- Invited reviewer in numerous scientific journals and conference papers.

### *Academic achievements at the Universidad de Guadalajara, Mexico.*

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- Coordinator of the Science Master program in Electronics Engineering at the Department of Electronic Engineering, CUCEI - U. de G., September 1993 – June 2004.
- Coordinator of the program Biomedical Engineering, CUCEI-U.de G., July 2003 – April 2004.
- Director of Division of Electronic and Computer Science, CUCEI – U. de G., May 1998 – April 2001.
- Member of the Electronic Department Council, Department of Electronic Engineering - CUCEI - U. de G., September 1994 – June 2004, September 2006-June 2008.
- Member of the Advisory Committee of the program in Communications and Electronic Engineering, Department of Electronic engineering - CUCEI - U. de G., April 2001 – 2004.
- Member of the Academic Committee of the post-grade program in electronic engineering, Department of Electronic engineering - CUCEI - U. de G., March 2002 – June 2004.
- Member of the Committee for the curricular design of the program of Communications and Electronic Engineering, Department of Electronic engineering - CUCEI - U. de G., 2003.
- Member of the Committee for the curricular design of the program of Biomedical Engineering, Department of Electronic engineering - CUCEI - U. de G., 2003.
- Member of the Colegio de Ingenieros en Electrónica del Estado de Jalisco (Electronic Engineering Association of the state of Jalisco), 2002-2004.
- Member of the Institutional Committee for the scholarships PROMEP, U. de G., 2003-2004.
- Member of the Academic Board of the Science Master program in Electronic Engineering, U. de G., September 2004-May 2008.
- Member of the Consejo Universitario de División, de Centro y General (Division, Campus and University Council) in several ocasiones.
- Head of the Department of Natural and Exact Sciences, CUValles – U.de G., June 2011.

- Courses taught:

#### Undergraduated-

- Teoría de la Información (Information theory),
- Sistemas de Comunicaciones (Communications systems),
- Procesamiento Digital de Señales (Digital signals processing),
- Líneas de Transmisión (Transmission lines),
- Antenas (Antennas),
- Enlaces Satelitales (Satellite connections).

#### Master-

- Investigación de Operaciones (Operation research),
- Ingeniería de Comunicaciones (Communications engineering),
- Ingeniería Electromagnética Avanzada (Advance electromagnetic engineering),
- Circuitos de Microondas (Microwaves circuits),
- Fundamentos de Microondas (Fundamentals of microwaves),
- Teoría de Antenas (Antenna theory),
- Técnicas de Medición de Microondas (Measurement techniques in microwaves),
- Circuitos pasivos de Microondas (Microwave passive circuits),
- Circuitos Activos de Microondas (Microwave active circuits),
- Modelado de Circuitos en Microondas (Microwave circuit modeling),
- Teoría Geométrica de la Difracción (Geometrical theory of diffraction),
- Ecuaciones Integrales y el Método de Momentos (Integral equations and moment methods),
- Diseño de Circuitos con Líneas Planas.

#### *Publications.*

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##### *Journals-*

- Jose Luis Ramos Quirarte, "A Method for Designing Microwave Broadband Amplifiers by Using Chebyshev Filter Theory to Design the Matching Networks", MICROWAVE AND OPTICAL TECHNOLOGY LETTERS, Vol. 4, No3, pp. 117-123, 1991.
- J. L. Ramos Quirarte and J. P. Starski, "Synthesis of Schiffman Phase Shifters", IEEE TRANS. ON MICROWAVE THEORY AND TECHNIQUES, Vol. 39, pp. 1885-1889, 1991.
- Jose Luis Ramos Quirarte and Piotr Starski, "Novel Schiffman Phase Shifters", IEEE TRANS. ON MICROWAVE THEORY AND TECHNIQUES, Vol. 49, pp. 9-14, 1993.
- Dr. José Luis Ramos Quirarte, "Grupo de Liderazgo Académico: Ingeniería Electrónica", Científica: Centro Universitario de Ciencias Exactas e Ingenierías, Vol. 1, pp. 46-49, 2000.
- José Luis Ramos Q., Martín J. Martínez S., Gustavo A. Vega, M. Susana Ruíz P., "Software for Calculating Radiation Patterns for Linear Antenna Arrays", WSEAS Transactions on Systems, Issue 2, ISSN 1109-2777, Vol. 1, pp. 238-243, 2002.
- José Luis Ramos Q., Martín J. Martínez S., M. Susana Ruíz P., "Software for Synthesis of Radiation Patterns by Linear Antenna Arrays", Advances in Communications and Software Technologies, Electrical and Computer Engineering Series, ISBN: 960-8052-71-8, pp. 89-94, 2002.

##### *Proceedings- 28 papers in international and national conferences, among others:*

- José Luis Ramos Quirarte and J. Piotr Starski, "Novel Schiffman Phase Shifters and Their Application", "ANTENN 91", FARO 12-16 August, pp. 389-398, Sweden, 1991.

- J. L. Ramos Quirarte och J. Piotr Starski, "Direkt Syntes av Schiffman Fasvridare (Shintesis of Schiffman Phase Shifters), GIGAHERTZ 1992, COLLEGIUM, MJARDEVI LINKOPING, pp. P1E-1-P1E-8, Sweden, 1992.
- J. L. Ramos Quirarte och J. Piotr Starski, "Nya Konfigurationer av Schiffman Fasvridare (Novel Schiffman Phase Shifters)", GIGAHERTZ 1992, COLLEGIUM, MJARDEVI LINKOPING, pp. P2D-1-P2D-9, Sweden, 1992.
- J. Piotr Starski, J. L. Ramos Quirarte; Sven Hagelin, Ulf Dahlgren, Hans Johansson, Borje Carlegrim, Lars Pettersson, "Circuits and Components for Active Antenna Arrays", WORKSHOP - COST 223, Holland, pp. S1-S13, 1992.
- José Luis Ramos Q., Martín J. Martínez S., Gustavo A. Vega G., M. Susana Ruíz P., "Software for Calculating Radiation Patterns for Linear Antenna Arrays", WSEAS INTERNATIONAL CONFERENCES: IMCCAS'02, ISA'02, SOSM'02, MCP'02 AND MEM'02, pp. 238-243, Cancún, México, 2002.
- José Luis Ramos Q., Martín J. Martínez S., M. Susana Ruíz P., "Software for Synthesis of Radiation Patterns by Linear Antenna Arrays", WSEAS INTERNATIONAL CONFERENCES: ICONEMC 2002, ICOSMO 2002, ICOSSIP 2002, ICOMIV 2002 ICRODIC 2002, pp. 2381-2386, Skiathos, Grecia, 2002.
- M. S. Ruíz Palcios, M.J. Martínez Silva y J. L. Ramos Quirarte, "Antenas Inteligentes en Telefonía Celular", Congreso Internacional IEEE, Chiclayo, Perú, Agosto, 2004.
- J. L. Ramos Quirarte, M. J. Martínez Silva, y M. S. Ruíz Palacios; "Software for Analysis and Design of Rectangular Planar Arrays", International Conference on Electrical and Electronics Engineering, Acapulco, Guerrero, México, Septiembre, 2004.
- J. L. Ramos Quirarte, N. Ramírez Hernández, J. Dávalos Guzmán, S. Gómez Ochoa, "A Novel Technique to design Phase Arrays (Scanning)", 1st International Congress on Instrumentation and Applied Sciences, Cancún, Q.R, México, Octubre, 2010.
- Marisol Angulo Romero, José Luis Ramos Quirarte, "Microstrip Antenna with Modified Radiation Pattern (Sloping)", 1st International Congress on Instrumentation and Applied Sciences, Cancún, Q.R, México, Octubre, 2010.
- José Luis Ramos Quirarte, Marisol Angulo Romero, "Comparative Study of the Performance of the Microstrip Antenna for different Substrates and Geometries", 1st International Congress on Instrumentation and Applied Sciences, Cancún, Q.R, Octubre, México, 2010.
- Norma Ramírez Hernández, José Luis Ramos Quirarte, "Estimación Espectral de Potencia de Señales E E G con Métodos No Paramétricos", VII Semana nacional de Ingeniería Electrónica, Tapachula, Chiapas, México, Octubre, 2011.

#### *Students.*

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- Thesis director of more than 10 undergraduated students.
- Thesis director of 6 master students.
- Thesis director of 2 PhD students.