

## REFERENCIAS

---

- [Alo-92] J. I. Alonso, J. Borja y F. Pérez, “A universal model for lossy and dispersive transmission lines for time domain CAD of circuits,” *IEEE Trans. Microwave Theory Tech.*, vol. 40, pp. 938–946, 1992.
- [Apr-72] T. J. Aprille Jr. y T. N. Trick, “Steady-state analysis of nonlinear circuits with periodic inputs,” *Proc. IEEE*, vol. 60, pp. 108–114, 1972.
- [Bak-81] G. A. Baker Jr. y P. R. Graves–Morris, *Padé Approximants, Part I: Basic Theory, Part II: Extensions and Applications*. London: Addison–Wessley, 1981.
- [Bar-98] I. Barbancho Pérez, *Determinación Eficiente de Regiones de Funcionamiento de Cicuitos No–Lineales en el Dominio de la Frecuencia*. Tesis Doctoral, Universidad de Málaga, 1998.
- [Bie-97] M. Biey, F. Bonani, M. Gilli y I. Maio, “Qualitative analysis of the dynamics of the time–delayed Chua’s circuit,” *IEEE Trans. Circuits Syst. I*, vol. 44, pp. 486–500, 1997.
- [Bon-95] J. Bonet Dalmau, *Tècniques de Padé Multipunt per a l’Aproximació Racional de Funcions i la seva Aplicació a la Simulació i Síntesi de Circuits*. Proyecto Fin de Carrera, ETSETB, Universitat Politècnica de Catalunya, 1995.

- [Bon-97] J. Bonet-Dalmau, P. Palà-Schönwälder y J. M. Miró-Sans, “Análisis de circuitos autónomos no lineales con parámetros distribuidos mediante técnicas de tiempo discreto,” in *Proc. URSI’97*, 1997, pp. 497–500.
- [Bon-98] J. Bonet-Dalmau, P. Palà-Schönwälder y J. M. Miró-Sans, “A discrete-time approach to the steady state analysis of distributed nonlinear autonomous circuits,” in *Proc. IEEE ISCAS’98*, 1998, pp. TAA731-TAA735.
- [Bon-99A] J. Bonet-Dalmau, P. Palà-Schönwälder y F. del Águila-López, “Steady state analysis of Chua’s circuit with RLCG transmission line,” in *Proc. IEEE ICECS’99*, 1999, pp. 839-842.
- [Bon-99B] J. Bonet-Dalmau, P. Palà-Schönwälder y F. del Águila-López, “Estudio del fenómeno de desdoblamiento de órbitas en el circuito de Chua retardado utilizando técnicas de tiempo discreto,” in *Proc. URSI’99*, 1999, pp. 145-146.
- [Bon-00] J. Bonet-Dalmau y P. Palà-Schönwälder, “A discrete-time approach to the steady state and stability analysis of distributed nonlinear autonomous circuits,” *IEEE Trans. Circuits Syst. I*, vol. 47, pp. 231-236, 2000.
- [Bra-97] A. Brambilla y D. D’Amore, “A control-based approach to the solution on nonlinear algebraic equations,” *IEEE Trans. Circuits Syst. I*, vol. 44, pp. 366–369, 1997.
- [Cam-83] C. Camacho-Peñalosa, “Numerical steady-state analysis of nonlinear microwave circuits with periodic excitation,” *IEEE Trans. Microwave Theory Tech.*, vol. 31, pp. 724–730, 1983.
- [Car-96] J. Carbó Pladellorens, *Mètodes Globalment Convergens per a l’Anàlisi de Circuits no Lineales en el Domini del Temps Discret*. Proyecto Fin de Carrera, ETSETB, Universitat Politècnica de Catalunya, 1996.
- [Cel-96] M. Celik y A. Atalar “A new method for the steady-state analysis of periodically excited nonlinear circuits,” *IEEE Trans. Circuits Syst. I* vol. 43, pp. 964–971, 1996.

- [Cha-90] F. Y. Chang, "Waveform relaxation analysis of RLCG transmission lines," *IEEE Trans. Circuits Syst. I*, vol. 37, pp. 1394–1415, 1990.
- [Chu-75] L. Chua y P. Lin, *Computer–Aided Analysis of Electronic Circuits*. Englewood Cliffs, NJ: Prentice Hall, 1975.
- [Chu-85] L. O. Chua, J. Yu y Y. Yu, "Bipolar–JFET–MOSFET negative resistance devices," *IEEE Trans. Circuits Syst.*, vol. 32, pp. 46–61, 1985.
- [Chu-87] L. O. Chua, C. A. Desoer y E. S. Kuh, *Linear and Nonlinear Circuits*. International Edition, McGraw–Hill, 1987.
- [Chu-93A] L. O. Chua, C. W. Wu, A. Huang y G.-Q. Zhong, "A universal circuit for studying and generating chaos–Part I: Routes to chaos," *IEEE Trans. Circuits Syst. I*, vol. 40, pp. 732–744, 1993.
- [Chu-93B] *Chua's Circuit: a Paradigm for Chaos*, R. N. Madan, Editor. Singapore River Edge, N.J: World Scientific, 1993.
- [Chu-98] L. O. Chua, C. W. Wu, G.-Q. Zhong y L. F. Liu, "Synthesizing arbitrary driving–point and transfer characteristics," *IEEE Trans. Circuits Syst. I*, vol. 45, pp. 1225–1232, 1998.
- [Den-83] J. E. Dennis y R. B. Schnabel, *Numerical Methods for Unconstrained Optimization and Nonlinear Equations*. Englewood Cliffs, NJ: Prentice–Hall, 1983.
- [Duc-93] L. Duchesne, "Using characteristic multiplier loci to predict bifurcation phenomena and chaos–A tutorial," *IEEE Trans. Circuits Syst. I*, vol. 40, pp. 683–688, 1993.
- [Fre-92] D. Frey y O. Norman, "An integral equation approach to the periodic steady–state problem in nonlinear circuits," *IEEE Trans. Circuits Syst.*, vol. 39, pp. 744–755, 1992.
- [Fre-98] D. Frey, "A class of relaxation algorithms for finding the periodic steady–state solution in nonlinear circuits," *IEEE Trans. Circuits Syst.*, vol. 45, pp. 659–663, 1998.

- [Fuj-97] H. Fujisaka y C. Sato, "Computing the number, location and stability of fixed points of Poincaré maps," *IEEE Trans. Circuits Syst. I*, vol. 44, pp. 303–311, 1997.
- [Hal-77] J. Hale, *Theory of Functional Differential Equations*. New York: Springer-Verlag, 1977.
- [Hen-86] D. Hente y R. H. Jansen, "Frequency domain continuation method for the analysis and stability investigation of nonlinear microwave circuits," *IEE Proc.*, vol. 133, pp. 351–362, 1986.
- [Hos-94] E. A. Hosny y M. I. Sobhy, "Analysis of chaotic behavior in lumped–distributed circuits applied to the time–delayed Chua's circuit," *IEEE Trans. Circuits Syst. I*, vol. 41, pp. 915–918, 1994.
- [Kaw-97] J. Kawata, Y. Nishio y A. Ushida, "Analysis of Chua's circuit with transmission line," *IEEE Trans. Circuits Syst. I*, vol. 44, pp. 556–558, 1997.
- [Kow-93] Z. Kowalczyk, "Discrete approximation of continuous–time systems: A survey," *IEE Proc. -G*, vol. 140, pp. 264–278, 1993.
- [Kun-86] K. S. Kundert y A. Sangiovanni–Vincentelli, "Simulation of nonlinear circuits in the frequency domain," *IEEE Trans. Computer-Aided Design*, vol. 5, pp. 521–535, 1986.
- [Mar-90] E. Martín Funke, *Contribución al Análisis de Circuitos Autónomos mediante Técnicas de Balance Armónico*. Tesis Doctoral, Universidad Politécnica de Madrid, 1990.
- [Mir-91] J. M. Miró y P. Palà, "CiOpt: A program for optimization of the frequency response of linear circuits," in *Proc. 34th Midwest Symp. Circuits Syst.*, 1991, pp. 915–920.
- [Mir-96] J. M. Miró–Sans, P. Palà–Schönwälder y O. Mas–Casals, "Stability analysis of periodic solutions in nonlinear autonomous circuits: a discrete–time approach," *Int. J. Circuit Theory Appl.*, vol. 24, pp. 511–517, 1996.

- [Nic-94] K. G. Nichols, T. J. Kazmierski, M. Zvolinski y A. D. Brown, "Overview of SPICE-like circuit simulation algorithms," *IEE Proc. - Circuits Devices Syst.*, vol. 141, pp. 242–250, 1994.
- [Pal-93] P. Palà y J. M. Miró, "An explicit method for modeling lossy and dispersive transmission lines," in *Proc. 23rd European Microwave Conference*, 1993, pp. 701–704.
- [Pal-94] P. Palà Schönwälder, *Análisis y Optimización de Circuitos Autónomos mediante Técnicas Temporales Discretas*. Tesis Doctoral, Universitat Politècnica de Catalunya, 1994.
- [Pal-95] P. Palà–Schönwälder y J. M. Miró–Sans, "A discrete-time approach to the steady-state analysis and optimization of non-linear autonomous circuits," *Int. J. Circuit Theory Appl., Special Issue on Analog Tools for Circuit Design*, vol. 23, pp. 297–310, 1995.
- [Par-89] T. S. Parker y L. O. Chua, *Practical Numerical Algorithms for Chaotic Systems*. NY: Springer, 1989.
- [Pro-98] J. G. Proakis y D. M. Manolakis, *Tratamiento Digital de Señales*. Madrid: Prentice–Hall, 1998.
- [Rhy-88] G. W. Rhyne, M. B. Steer y B. D. Bates, "Frequency-domain nonlinear circuit analysis using generalized power series," *IEEE Trans. Microwave Theory Tech.*, vol. 36, pp. 379–387, 1988.
- [Riz-85] V. Rizzoli y A. Lipparini, "General stability analysis of periodic steady-state regimes in nonlinear microwave circuits," *IEEE Trans. Microwave Theory Tech.*, vol. 33, pp. 30–37, 1985.
- [Riz-88] V. Rizzoli y A. Neri, "State of the art and present trends in nonlinear microwave CAD techniques," *IEEE Trans. Microwave Theory Tech.*, vol. 36, pp. 343–365, 1988.

- [Rod-98] P. J. C. Rodrigues, *Computer–Aided Analysis of Nonlinear Microwave Circuits*. Boston, London: Artech House, 1998.
- [Ros-80] L. A. Rosenthal, “Inductively tuned astable multivibrator,” *IEEE Trans. Circuits Syst.*, vol. 27, pp. 963–964, 1980.
- [Sch-91] A. M. Schneider, J. T. Kaneshige y F. D. Groutage, “Higher order  $s$ –to– $z$  mapping functions and their application in digitizing continuous–time filters,” *Proc. IEEE*, vol. 79, pp. 1661–1674, 1991.
- [Sch-94] A. M. Schneider, J. A. Anuskiewicz y I. S. Barghouti, “Accuracy and stability of discrete–time filters generated by higher–order  $s$ –to– $z$  mapping functions,” *IEEE Trans. Automat. Contr.*, vol. 39, pp. 435–441, 1994.
- [Sey-88] R. Seydel, *From Equilibrium to Chaos*. NY: Elsevier, 1988.
- [Sha-93] A. N. Sharkovsky, “Chaos from a time–delayed Chua's circuit,” *IEEE Trans. Circuits Syst. I*, vol. 40, pp. 781–783, 1993.
- [Wan-97] C. Wan y A. M. Schneider, “Further improvements in digitizing continuous–time filters,” *IEEE Trans. Signal Proc.*, vol. 45, pp. 533–542, 1997.