

Riferimenti bibliografici

- [1] R. Marcelli, M. Rossi, P. De Gasperis, D. Fiorani, A.M. Testa, N. Sparvieri, "Magnetic Properties of Amorphous Multilayer YIG/GGG Garnets", 9th European Physical Society General Conference, *Trends in Physics*, 1993
  
- [2] G. F. Dionne, "Magnetic Moment Versus Temperature Curves of Ferrimagnetic Garnet Materials", Massachusetts Institute of Technology Lincoln Laboratory, Technical Report, 9 September 1970
  
- [3] Elmer E. Anderson, "Molecular Field Model and the Magnetization of YIG", *Physical Review*, 134-6A, pp. 1581-1585, June 1964
  
- [4] H. D. Jonker, "Investigation of the phase diagram of the system  $\text{PbO-B}_2\text{O}_3\text{-Fe}_2\text{O}_3\text{-Y}_2\text{O}_3$  for the growth of single crystals of  $\text{Y}_3\text{Fe}_5\text{O}_{12}$ ", *Journal of Crystal Growth*, pp. 231-239, (28) 1975
  
- [5] Camillo Borghese, Paolo De Gasperis, "Growth of Magnetic Garnet Thin Films and related Magnetic Resonance Experiments", *Magnetism in Solids: Some current topics, Proceedings of the 22th Scottish Universities Summer School in Physics*, pp. 231-264, 1981
  
- [6] Charles Kittel, *Introduction to Solid State Physics*, fifth edition, New York, John Wiley & Sons, 1976
  
- [7] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
  
- [8] P. Kabos, V.S. Stalmachov, *Magnetostatic Waves and Their Application*, London, Chapman & Hall, 1994
  
- [9] M. S. Sodha, Srivastava, *Microwave Propagation in Ferrimagnetic*, Plenum Press, New York 1981

Riferimenti bibliografici

- [1] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
- [2] P. Kabos, V.S. Stalmachov, *Magnetostatic Waves and Their Application*, London, Chapman & Hall, 1994
- [3] Shyam N. Bajpai, Ronald L. Carter, John M. Owens, "Insertion Loss of Magnetostatic Surface Wave Delay Lines", *IEEE Transactions on Microwave Theory and Techniques*, pp.132-136, January 1988
- [4] M. Sparks, "Ferromagnetic Resonance in Thin Films", *Physical Review B*, pp.3831-3880, May 1970
- [5] T. W. O'Keeffe, R. W. Patterson, "Magnetostatic surface-wave propagation in finite samples", *Journal of Applied Physics*, pp.4886-4895, September 1978
- [6] M. S. Sodha, Srivastava, *Microwave Propagation in Ferrimagnetic*, Plenum Press, New York 1981
- [7] R. Marcelli, M. Rossi, P. De Gasperis, "Magnetostatic Wave Microwave Signal Processing", *Proceedings of the European Space Agency Workshop on Advanced CAD for Microwave Filters and Passive Devices*, Noordwijk, The Netherlands, November 1995, pp.395-413
- [8] R. Marcelli, M. Rossi, P. De Gasperis, Su Jun, "Magnetostatic Wave Single and Multiple Stage Resonators", *IEEE Transactions on Magnetics*, Vol. 32, No. 5, 1996, pp. 4156-4161
- [9] R.W. Damon, J.R. Eshbach, "Magnetostatic Modes of a Ferromagnet Slab", *Journal of Physics and Chemistry of Solids*, pp. 308-320, Vol. 19, 1961
- [10] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
- [11] Kunquan Sun, Carmine Vittoria, "Ferromagnetic resonance of single-crystal YIG/gadolinium garnet/YIG layers", *Journal of Applied Physics*, Vol.67, pp.3088-3092, March 1990

- [12] J. Barak, "Perpendicular Field FMR in Rectangular YIG Films Using Frequency Sweeping Spectrometer", *preprint* 1988
- [13] Steven N. Stitzer, "A Microwave Circuit Model for a Magnetostatic Wave Filter", *IEEE MTT-S Digest*, pp. 875-878, 1988

Riferimenti bibliografici

- [1] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
- [2] P. Kabos, V.S. Stalmachov, *Magnetostatic Waves and Their Application*, London, Chapman & Hall, 1994
- [3] Guobao Zheng, M. Pardavi-Horvath, Xiaohua Huang, B. Keszei, J. Vandlik, "Experimental Determination of An Effective Demagnetization Factor for Non-Ellipsoidal Geometries", 40th MMM Conference, Philadelphia, PA, 1995
- [4] M. Sparks, "Ferromagnetic Resonance in Thin Films", *Physical Review B*, pp.3831-3880, May 1970
- [5] T. W. O'Keeffe, R. W. Patterson, "Magnetostatic surface-wave propagation in finite samples", *Journal of Applied Physics*, pp.4886-4895, September 1978
- [6] J. Barak, U. Lachish, "Study of the excitation of magnetostatic modes in yttrium-iron-garnet films by a microstrip line", *Journal of Applied Physics*, pp.1652-1658, February 1989
- [7] R. Marcelli, M. Rossi, P. De Gasperis, "Magnetostatic Wave Microwave Signal Processing", *Proceedings of the European Space Agency Workshop on Advanced CAD for Microwave Filters and Passive Devices*, Noordwijk, The Netherlands, November 1995, pp.395-413
- [8] R. Marcelli, M. Rossi, P. De Gasperis, Su Jun, "Magnetostatic Wave Single and Multiple Stage Resonators", *IEEE Transactions on Magnetics*, Vol. 32, No. 5, 1996, pp. 4156-4161
- [9] R.W. Damon, J.R. Eshbach, "Magnetostatic Modes of a Ferromagnet Slab", *Journal of Physics and Chemistry of Solids*, pp. 308-320, Vol. 19, 1961
- [10] I. Huynen, A. Vander Vorst, "Theoretical and Experimental Evidence of Nonreciprocal Effects on Magnetostatic Forward Volume Wave Resonators", *IEEE Microwave and Guided Wave Letters*, pp.195-197, June 1995

- [11] Kunquan Sun, Carmine Vittoria, "Ferromagnetic resonance of single-crystal YIG/gadolinium garnet/YIG layers", *Journal of Applied Physics*, Vol.67, pp.3088-3092, March 1990
- [12] J. Barak, R. Ruppin, J. T. Suss, "Ferromagnetic resonance of thin yttrium iron garnet films near a ground plane: Parallel field", *Journal of Applied Physics*, pp.2372-2377, April 1988
- [13] K. Chang, W. S. Ishak, "Magnetostatic Forward Volume Wave Straight Edge Resonators", *IEEE MTT-S Digest*, 1986
- [14] R. I. Joseph, E. Schlömann, "Demagnetizing Field in Nonellipsoidal Bodies", *Journal of Applied Physics*, pp.1579-1593, May 1965
- [15] P. R. Emtage, "Interaction of magnetostatic waves with a current", *Journal of Applied Physics*, pp.4475-4484, August 1978
- [16] M. Pardavi-Horvath, Guobao Zheng, "Inhomogeneous Internal Field Distribution in Planar Microwave Ferrite Devices", *Proceedings III International Workshop Non-Linear Microwave Magnetic and Magneto-optic Information Processing NATO ASI Series 3. High Technology Vol. 20*, pp. 45-69, 1996
- [17] R. Marcelli, M. Rossi, Su Jun, P. De Gasperis, "Design of Magnetostatic Wave Band-Pass Resonators", *INTERMAG 1996 Poster Session*
- [18] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
- [19] I.J. Weinberg, J.C. Sethares, "Magnetostatic Forward Volume Wave Propagation-Finite Width", *IEEE Transactions on Microwave Theory and Techniques*, Vol. 32, pp.463-464, April 1984
- [20] *Back to Basics*, HP Seminar 1997
- [21] Mario Salerno, *Linee di trasmissione*, Dipartimento di Ingegneria Elettronica Università Tor Vergata, Universitalia editore
- [22] J. Barak, "Perpendicular Field FMR in Rectangular YIG Films Using Frequency Sweeping Spectrometer", *preprint* 1988
- [23] Terry Edwards, *Foundations for Microstrip Circuit Design*, second edition, New York, John Wiley & Sons, 1992

- [24] K. Yashiro, S. Ohkawa, "A New Development of an Equivalent Circuit Model for Magnetostatic Forward Volume Wave Transducers", IEEE MTT, pp. 952-960, June 1988
- [25] Achintya K. Ganguly, Denis C. Webb, "Microstrip Excitation of Magnetostatic Surface Waves Theory and Experiment", IEEE Transactions on Microwave Theory and Techniques, Vol. 23, pp.998-1006, December 1975

Riferimenti bibliografici

- [1] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
- [2] P. Kabos, V.S. Stalmachov, *Magnetostatic Waves and Their Application*, London, Chapman & Hall, 1994
- [3] Dean Nicholson, "Ferrite Tuned Millimeter Wave Bandpass Filters With High Off Resonance Isolation", *IEEE MTT-S Digest*, pp. 867-870, 1988
- [4] Jaroslav Uher, Jens Bornemann, Fritz Arndt, "Ferrite Tunable Millimeter Wave Printed Circuit Filters", *IEEE MTT-S Digest*, pp. 871-874, 1988
- [5] Steven N. Stitzer, "A Microwave Circuit Model for a Magnetostatic Wave Filter", *IEEE MTT-S Digest*, pp. 875-878, 1988
- [6] J. Barak, U. Lachish, "Study of the excitation of magnetostatic modes in yttrium-iron-garnet films by a microstrip line", *Journal of Applied Physics*, pp.1652-1658, February 1989
- [7] R. Marcelli, M. Rossi, P. De Gasperis, "Magnetostatic Wave Microwave Signal Processing", *Proceedings of the European Space Agency Workshop on Advanced CAD for Microwave Filters and Passive Devices*, Noordwijk, The Netherlands, November 1995, pp.395-413
- [8] R. Marcelli, M. Rossi, P. De Gasperis, Su Jun, "Magnetostatic Wave Single and Multiple Stage Resonators", *IEEE Transactions on Magnetics*, Vol. 32, No. 5, 1996, pp. 4156-4161
- [9] J.D. Adam, Michael R. Daniel, S.H. Talisa, "A 13-channel magnetostatic wave filter-bank", *IEEE MTT-S Digest*, pp. 879-882, 1988
- [10] Jin-Fa Lee, Z.J. Cendes, "Analysis of microwave ferrite devices by the transfinite element method", *IEEE MTT-S Digest*, pp. 883-886, 1988
- [11] Kunquan Sun, Carmine Vittoria, "Ferromagnetic resonance of single-crystal YIG/gadolinium garnet/YIG layers", *Journal of Applied Physics*, Vol.67, pp.3088-3092, March 1990

- [12] Masahisa Kaneta, Ken'ichiro Yashiro, Sumio Ohkawa, "A magnetostatic forward volume wave directional coupler with a guiding slot structure", *IEEE MTT-S Digest*, pp. 887-890, 1988
- [13] Shyam N. Bajpai, Ronald L. Carter, John M. Owens, "Insertion Loss of Magnetostatic Surface Wave Delay Lines", *IEEE Transactions on Microwave Theory and Techniques*, pp.132-136, January 1988
- [14] Hua Yan, Junji Yamagata, Ikuo Awai, "Resonant Mode Characteristics of MSW-SER in LPE-YIG Films", *Asia Pacific Microwave Conference*, pp.1235-1238, 1996
- [15] P. R. Emtage, "Interaction of magnetostatic waves with a current", *Journal of Applied Physics*, pp.4475-4484, August 1978
- [16] R. Marcelli, M. Rossi, P. De Gasperis, "Risuonatori ad onda magnetostatica basati su film di granato magnetico per filtri a frequenze di microonde", *Corso Nazionale del GNSM III Scuola del Settore Magnetismo, Nuovi sviluppi ed applicazioni del Magnetismo*, October 1995
- [17] R. Marcelli, M. Rossi, Su Jun, P. De Gasperis, "Design of Magnetostatic Wave Band-Pass Resonators", *INTERMAG 1996 Poster Session*
- [18] I.J. Weinberg, J.C. Sethares, "Magnetostatic Forward Volume Wave Propagation-Finite Width", *IEEE Transactions on Microwave Theory and Techniques*, Vol. 32, pp.463-464, April 1984
- [19] R. Marcelli, P. De Gasperis, "Microwave Linear and Nonlinear Signal Processing in Magnetic Garnet Films", su "*Current Topics in Magnetism Research*" by J. Menon, *Research Trends, Trivandrum, India*, Vol. 1, 1994, pp.123-143
- [20] K. Yashiro, S. Ohkawa, "A New Development of an Equivalent Circuit Model for Magnetostatic Forward Volume Wave Transducers", *IEEE MTT*, pp. 952-960, June 1988
- [21] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
- [22] Daniel D. Stancil, "Phenomenological propagation loss theory for magnetostatic waves in thin ferrite films", *Journal of Applied Physics*, Vol. 59, pp.218-224, January 1986
- [23] I.J. Weinberg, "Insertion Loss for Magnetostatic Volume Waves", *IEEE Transactions on Magnetics*, Vol. 18, pp.1607-1609, November 1982

- [24] J.C. Sethares, "Magnetostatic Surface-Wave Transducers", IEEE Transactions on Microwave Theory and Techniques, Vol. 27, pp.902-909, November 1979
  
- [25] Sethares, Denis C. Webb, Crawford Banks, "Complex Radiation Impedance of Microstrip-Excited Magnetostatic-Surface Waves", IEEE Transactions on Microwave Theory and Techniques, Vol. 26, pp.444-447, June 1978
  
- [26] J.H. Collins, D.M. Hastie, J.M. Owens, C.V. Smith, Jr "Magnetostatic Wave Terminations", Journal of Applied Physics, Vol. 49, pp.1800-1802, March 1978
  
- [27] Achintya K. Ganguly, Denis C. Webb, "Microstrip Excitation of Magnetostatic Surface Waves Theory and Experiment", IEEE Transactions on Microwave Theory and Techniques, Vol. 23, pp.998-1006, December 1975
  
- [28] *Back to Basics*, HP Seminar 1997
  
- [29] Mario Salerno, *Linee di trasmissione*, Dipartimento di Ingegneria Elettronica Università Tor Vergata, Universitalia editore
  
- [30] Terry Edwards, *Foundations for Microstrip Circuit Design*, second edition, New York, John Wiley & Sons, 1992
  
- [31] Charles Kittel, *Introduction to Solid State Physics*, fifth edition, New York, John Wiley & Sons, 1976

Riferimenti bibliografici

- [1] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
- [2] P. Kabos, V.S. Stalmachov, *Magnetostatic Waves and Their Application*, London, Chapman & Hall, 1994
- [3] Charles Kittel, *Introduction to Solid State Physics*, fifth edition, New York, John Wiley & Sons, 1976
- [4] H. Yan, Q Wang, I. Awai, "Resonant frequency shift in a MSSW-SER with excitation power", *Electronic Letters*, pp. 1787-1789, September 1996
- [5] Romolo Marcelli, Orsola Petrella, Claudio Risi, "Power Handling of Magnetostatic Wave Resonators", *IEEE Transactions on Magnetics*, September 1997
- [6] J. Barak, U. Lachish, "Study of the excitation of magnetostatic modes in yttrium-iron-garnet films by a microstrip line", *Journal of Applied Physics*, pp.1652-1658, February 1989
- [7] R. Marcelli, M. Rossi, P. De Gasperis, "Magnetostatic Wave Microwave Signal Processing", *Proceedings of the European Space Agency Workshop on Advanced CAD for Microwave Filters and Passive Devices*, Noordwijk, The Netherlands, November 1995, pp.395-413
- [8] R. Marcelli, M. Rossi, P. De Gasperis, Su Jun, "Magnetostatic Wave Single and Multiple Stage Resonators", *IEEE Transactions on Magnetics*, Vol. 32, No. 5, 1996, pp. 4156-4161
- [9] R. Marcelli, M. Rossi, P. De Gasperis, "Risuatori ad onda magnetostatica basati su film di granato magnetico per filtri a frequenze di microonde", *Corso Nazionale del GNSM III Scuola del Settore Magnetismo, Nuovi sviluppi ed applicazioni del Magnetismo*, October 1995
- [10] R. Marcelli, P. De Gasperis, "Microwave Linear and Nonlinear Signal Processing in Magnetic Garnet Films", su "*Current Topics in Magnetism Research*" by J. Menon, *Research Trends*, Trivandrum, India, Vol. 1, 1994, pp.123-143

- [11] R. Marcelli, M. Rossi, Su Jun e P. De Gasperis, "Design of Magnetostatic Wave Band-Pass Resonators", INTERMAG 1996 Poster Session
  
- [12] R. Marcelli, A.N. Slavin "Angular dependencies of thermal and nonlinear characteristics of spin wave signal processing devices", Journal of Applied Physics, pp.6463-6465, May 1993
  
- [13] Athanasios Papoulis, *Probability and Statistics*, Prentice Hall, 1990
  
- [14] R. I. Joseph, E. Schlömann, "Demagnetizing Field in Nonellipsoidal Bodies", Journal of Applied Physics, pp.1579-1593, May 1965

Riferimenti bibliografici

- [1] Daniel D. Stancil, *Theory of Magnetostatic Waves*, first edition, New York, Springer-Verlag, 1993
- [2] Richard W. Anderson, "S-Parameter Techniques for Faster, More Accurate Network Design", HP Application Note 95-1
- [3] P. Guillon, B. Byzery, M. Chaubet, "Coupling Parameters Between a Dielectric Resonator and a Microstripline", IEEE Transactions on Microwave Theory and Techniques, pp. 222-226, (MTT-33) March 1985
- [4] R. E. Collin, *Foundation for Microwave Engineering*, international student edition, London, Mc-Graw Hill, 1996
- [5] Terry Edwards, *Foundations for Microstrip Circuit Design*, second edition, New York, John Wiley & Sons, 1992
- [6] Kai Chang, *Microwave Solid-State Circuits and Applications*, first edition, New York, John Wiley & Sons, 1994
- [7] M V. Schneider, "Microstrip Lines for Microwave Integrated Circuits", The Bell System Technical Journal, pp. 1421-1444, May-June 1969
- [8] G. Matthaei, L. Young, E. M. T. Jones, *Microwave filters, Impedance Matching Networks, and Coupling Structures*, New York, Artech House Books, 1980
- [9] Rene J. P. Douville, David S. James, "Experimental Study of Symmetric Microstrip Bends and Their Compensation", IEEE Transactions on Microwave Theory and Techniques, pp. 175-182, (MTT-26) March 1978
- [10] R. Marcelli, M. Rossi, P. De Gasperis, Su Jun, "Magnetostatic Wave Single and Multiple Stage Resonators", IEEE Transactions on Magnetics, Vol. 32, No. 5, 1996, pp. 4156-4161
- [11] Hua Yan, Junji Yamagata, Ikuo Awai, "Resonant Mode Characteristics of MSW-SER in LPE-YIG Films", Asia Pacific Microwave Conference, pp.1235-1238, 1996

- [12] P. R. Emtage, "Interaction of magnetostatic waves with a current", *Journal of Applied Physics*, pp.4475-4484, August 1978
  
- [13] R. Marcelli, M. Rossi, Su Jun, P. De Gasperis, "Design of Magnetostatic Wave Band-Pass Resonators", INTERMAG 1996 Poster Session
  
- [14] K. Yashiro, S. Ohkawa, "A New Development of an Equivalent Circuit Model for Magnetostatic Forward Volume Wave Transducers", *IEEE MTT*, pp. 952-960, June 1988
  
- [15] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
  
- [16] Mario Salerno, *Linee di trasmissione*, Dipartimento di Ingegneria Elettronica Università Tor Vergata, Universitalia editore

Riferimenti bibliografici

- [1] Cataloghi dei componenti a stato solido per RF e microonde delle seguenti ditte: HP, Fujitsu, NEC; application notes e technical notes
- [2] William F. Egan, *Frequency Synthesis by Phase Lock*, John Wiley and Sons 1981
- [3] George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, *Microwave Circuit Design Using Linear and Non linear Techniques*, John Wiley and Sons, New York, 1990
- [4] Didier Kaminsky, "Microwave oscillators", *The Microwave Engineering Handbook Vol. II*, Chapman and Hall, 1993
- [5] Kenneth M. Johnson, "Large Signal GaAs MESFET Oscillator Design", *IEEE Transactions on Microwave Theory and Techniques*, pp. 217-227, (MTT-27) March 1979
- [6] *Back to Basics*, HP seminar 1997
- [7] Richard W. Anderson, "S-Parameter Techniques for Faster, More Accurate Network Design", HP Application Note 95-1
- [8] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
- [9] R.A. Pucel, R. Bera, D. Masse, "Experiments on integrated gallium-arsenide F.E.T. oscillators at X band", *Electronic Letters*, (Vol. 11), 10, pp. 219-220, May, 1975
- [10] Ewald Pettenpau, Hartmut Kapusta, Andreas Weisgerber, Heinrich Mampe, Jurgen Luginsland, Ingo Wolff, "CAD Models of Lumped Elements on GaAs up to 18 GHz", *IEEE Transactions on Microwave Theory and Techniques*, pp. 294-304, (MTT-36) February 1988
- [11] Peter H. Ladbrooke, *MMIC Design: GaAs FETs and HEMTs*, Artech House 1989
- [12] Thomas Musch, "A low noise and low cost YIG-oscillator in the frequency range from 4.5 GHz to 12 GHz", *26th EuMC*, pp. 81-85, September 1996
- [13] Randall W. Rhea, *Oscillator Design and Computer Simulation*, Prentice Hall, 1990

Riferimenti bibliografici

- [1] Application notes, cataloghi Watkins-Johnson dei filtri a YIG e oscillatori (1990)
- [2] Application notes, cataloghi MicroLambda dei filtri a YIG e oscillatori (1995)
- [3] Cataloghi dei componenti a stato solido per RF e microonde delle seguenti ditte: HP, Fujitsu, NEC, Tekelec Components (M.O.S. Capacitors: chips and arrays); application notes e technical notes
- [4] William F. Egan, *Frequency Synthesis by Phase Lock*, John Wiley and Sons 1981
- [5] George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, *Microwave Circuit Design Using Linear and Non linear Techniques*, John Wiley and Sons, New York, 1990
- [6] Didier Kaminsky, "Microwave oscillators", *The Microwave Engineering Handbook Vol. II*, Chapman and Hall, 1993
- [7] G. Verstraeten, J. Marien, F. Coromina, "Low phase-noise tunable oscillator using magnetostatic wave resonators", *26th EuMC*, pp. 90-93, September 1996
- [8] César Briso, Francisco José Lopez, "A 2 to 8 GHz YIG phase locked oscillator combining analog and digital technology for low phase noise and wide band operation", *26th European Microwave Conference, Active Devices and Circuits*, pp. 814-818, 1996
- [9] Thomas Musch, "A low noise and low cost YIG-oscillator in the frequency range from 4.5 GHz to 12 GHz", *26th EuMC*, pp. 81-85, September 1996
- [10] R.L. Carter, J.M. Owens, "YIG tuned Oscillators: Is a Planar Geometry Better?", *MTT-32*, pp. 1671-1674, December 1984
- [11] Y. Mizunuma, T. Ogihara, H. Nakamo, T. Okamoto, Y. Murakami, "A 13 GHz Yig Film Tuned Oscillator for VSAT Applications", *MTT-S Digest*, pp. 1085-1088, 1988
- [12] J. Mezak, G. Vendelin, "CAD Design of YIG tuned oscillators", *Microwave Journal*, pp. 92-96, December 1992

- [13] Y.K. Fetisov, P. Kabos, C.E: Patton, "Bistable microwave oscillator with magnetostatic wave signal-to-noise enhancer in the feedback loop", *Electronic Letters*, pp. 1894-1895, September 1996
- [14] John W. Boyles, "The Oscillator as a Reflection Amplifier: an Intuitive Approach to Oscillator Design", *Microwave Journal*, pp. 83-98, June 1986
- [15] Daniel J. Esdale, Michael J. Howes, "A Reflection Coefficient Approach to the Design of One-Port Negative Impedance Oscillators", *IEEE Transactions on Microwave Theory and Techniques*, pp. 770-776, (MTT-29) August 1981
- [16] S.J.Prasad, C.Haynes, "First Demonstration of a GaInP/GaAs HBT Microwave Oscillator", *IEEE MTT-Symposium*, pp. 87-90, 1994
- [17] Heinz J. Siweris, Burkhard Schiek, "Analysis of Noise Upconversion in Microwave FET Oscillators", *IEEE MTT*, vol. 33, pp. 233-242, March, 1985
- [18] *HP RF&Microwave Phase Noise Measurement Seminar 1988*
- [19] Kenneth M. Johnson, "Large Signal GaAs MESFET Oscillator Design", *IEEE Transactions on Microwave Theory and Techniques*, pp. 217-227, (MTT-27) March 1979
- [20] Ganesh R. Basawapatna, Roger B. Stancliff, "A Unified Approach to the Design of Wide-Band Microwave Solid-State Oscillators", *IEEE Transactions on Microwave Theory and Techniques*, pp. 379-385, (MTT-27) May 1979
- [21] R. Marcelli, P. De Gasperis, L. Marescialli, "A Tunable, High Q Magnetostatic Volume Wave Oscillator based on Straight Edge YIG Resonators", *IEEE Transactions on Magnetics*, (Vol. 27), 6, pp. 5477-5479, November, 1991
- [22] *Back to Basics*, HP seminar 1997
- [23] *Advanced Techniques for Communication Signal Path Design*, HP Symposium 1997
- [24] Richard W. Anderson, "S-Parameter Techniques for Faster, More Accurate Network Design", HP Application Note 95-1

- [25] Terry Edwards, *Foundations for Microstrip Circuit Design*, second edition, New York, John Wiley & Sons, 1992
  
- [26] Kai Chang, *Microwave Solid-State Circuits and Applications*, first edition, New York, John Wiley & Sons, 1994
  
- [27] G. Matthaei, L. Young, E. M. T. Jones, *Microwave filters, Impedance Matching Networks, and Coupling Structures*, New York, Artech House Books, 1980
  
- [28] J. Helszajn, *YIG resonators and filters*, New York, John Wiley & Sons, 1985
  
- [29] R.A. Pucel, R. Bera, D. Masse, "Experiments on integrated gallium-arsenide F.E.T. oscillators at X band", *Electronic Letters*, (Vol. 11), 10, pp. 219-220, May, 1975
  
- [30] Randall W. Rhea, *Oscillator Design and Computer Simulation*, Prentice Hall, 1990
  
- [31] *Simulating Noise in Nonlinear Circuits Using the HP Microwave and RF Design Systems*, HP Product Note 85150-4, 1993

### Riferimenti bibliografici

- [1] William F. Egan, *Frequency Synthesis by Phase Lock*, John Wiley and Sons 1981
- [2] George D. Vendelin, Anthony M. Pavio, Ulrich L. Rohde, *Microwave Circuit Design Using Linear and Non linear Techniques*, John Wiley and Sons, New York, 1990
- [3] Steve Hamilton, "FM and AM Noise in Microwave Oscillators", *Microwave Journal*, pp. 105-109, June, 1978
- [4] Didier Kaminsky, "Microwave oscillators", *The Microwave Engineering Handbook Vol. II*, Chapman and Hall, 1993
- [5] Marian W. Pospieszalski, "Modeling of Noise Parameters of MESFET's and MODFET's and Their Frequency and Temperature Dependence", *IEEE Transactions on Microwave Theory and Techniques*, (MTT-37), 9, pp. 1340-1350, September, 1989
- [6] Vittorio Rizzoli, Franco Mastri, Claudio Cecchetti, "Computer-Aided Noise Analysis of MESFET and HEMT Mixers", *IEEE Transactions on Microwave Theory and Techniques*, (MTT-37), 9, pp. 1401-1410, September, 1989
- [7] Vittorio Rizzoli, Franco Mastri, Diego Masotti, "General Noise Analysis of Nonlinear Microwave Circuits by the Piecewise Harmonic-Balance Technique", *IEEE Transactions on Microwave Theory and Techniques*, (MTT-42), 5, pp. 807- 819, May, 1994
- [8] P. Viktorovitch, P. Rojo-Romeo, J. L. Leclercq, X. Letartre, Jacques Tardy, M. Oustric, M. Gendry, "Low Frequency Noise Sources in InAlAs/InGaAs MODFET's", *IEEE Transactions on Electron Devices*, (Vol. 43), 12, pp. 2085-2100, December, 1996
- [9] Alain Cappy, François Danneville, Gilles Dambrine, "Noise Analysis in Devices Under Nonlinear Operation", *preprint*
- [10] Werner Anzill, Marion Filleböck, Peter Russer, "Low Phase Noise Design of Microwave Oscillators", *Int. Journal of Microwave and Millimeter Wave Computer-Aided Engineering*, vol. 6, n. 1, pp. 5-25, 1996
- [11] G.R. Olbrich, T.Felgentreff, W.Anzill, G.Hersina, P.Russer, "Calculation of HEMT Oscillator Phase Noise Using Large Signal Analysis in Time Domain", *IEEE MTT-Symposium*, pp. 965-968, 1994

- [12] Alina Caddemi, Mario Sannino, "Modeling of Low-Noise Microwave HEMTs for CAD-Oriented Applications", *International Journal of Microwave and Millimeter-Wave Computer-Aided Engineering*, vol. 3, pp. 29-35, 1993
- [13] Alain Cappy, "Noise Modeling and Measurement Techniques", *IEEE MTT*, vol. 36, pp. 1-10, January 1988
- [14] P.Dutta, P.M.Horn, "Low-frequency fluctuations in solids: 1/f noise", *Reviews of Modern Physics*, vol. 53, pp. 497-516, July 1981
- [15] René D. Martinez, Daniel E. Oates, Richard C. Compton, "Measurement and Model for Correlating Phase and Baseband 1/f Noise in an FET", *IEEE MTT*, vol. 42, pp. 2051-2055, November, 1994
- [16] Akio Takaoka, Katsumi Ura, "Noise Analysis of Nonlinear Feedback Oscillators with AM-PM Conversion Coefficient", *IEEE MTT*, vol. 28, pp. 654-662, June, 1980
- [17] Gilles Dambrine, Henri Happy, Francois Danneville, Alain Cappy, "A New Method for On Wafer Noise Measurement", *IEEE MTT*, vol. 41, pp. 375-381, March, 1994
- [18] Heinz J. Siweris, Burkhard Schiek, "Analysis of Noise Upconversion in Microwave FET Oscillators", *IEEE MTT*, vol. 33, pp. 233-242, March, 1985
- [19] G.R. Olbrich, T.Felgentreff, W.Anzill, G.Hersina, P.Russer, "Calculation of HEMT Oscillator Phase Noise Using Large Signal Analysis in Time Domain", *IEEE MTT-Symposium*, pp. 965-968, 1994
- [20] *HP RF&Microwave Phase Noise Measurement Seminar 1988*
- [21] Kok-Wai Chang, Waguih Ishak, William Kunz, "Phase noise characteristics of MSW Devices", *IEEE Ultrasonics Symposium Proceedings*, 1985
- [22] *Back to Basics, HP seminar 1997*
- [23] *Advanced Techniques for Communication Signal Path Design, HP Symposium 1997*
- [24] T. Felgetreff, G. Olbrich, P. Russer, "Noise Parameter Modeling of HEMTs with Resistor Temperature Noise Sources", *IEEE MTT-Symposium Digest*, pp. 853-856, 1994

- [25] Werner Anzill, Peter Russer, "A General Method Based on Harmonic Balance Techniques to Simulate Noise in Free Running Oscillators", IEEE MTT-Symposium Digest, pp. 655-658, 1993
  
- [26] Walter R. Curtice, M. Ettenberg, "A Nonlinear GaAs FET Model for Use in the Design of Output Circuits for Power Amplifiers", IEEE MTT, vol. 33, pp. 1383-1394, December, 1985
  
- [27] T. Felgentreff, G.R. Olbrich, "Modeling of Low Frequency Noise Sources in HEMTs", IEEE MTT-Symposium Digest, pp. 1743-1746, 1996
  
- [28] *Simulating Noise in Nonlinear Circuits Using the HP Microwave and RF Design Systems*, HP Product Note 85150-4, 1993