

References

[1]-Robert W. Dull, Largo High School, Largo, Florida and H. Richard Kerchner ,Oak Ridge National Laboratory, Oak Ridge, Tennessee , “**A Teacher's Guide to Superconductivity for High School Students,**” ORNL/M-3063/R1, (September 1994)

[2]-www.Wikipedia.org.

[3]- Charles P. Poole, Horacio A. Farach, Richard J. Creswick, Ruslan Prozorov, “**Superconductivity,**”, Second edition .Publisher: Academic Press, ISBN: 0120887614, Date: (Jul 2007).

[4]- Superconductors.org (22 October 2007).

[5]- Donglu Shi University of Cincinnati, “**High-Temperature Superconducting Materials Science and Engineering New Concepts and Technology,**” Editor: Donglu Shi .University of Cincinnati, USA, ISBN: 0080421512, (1995)

[6]- Erlangen, “**20 Years of High-Temperature Superconductors - Successes and Challenges,**” International Superconductivity Industry Summit ISIS -15, Erlangen, Germany, (September 29, 2006).

[7]- Ivan Parinov, “**Microstructure and Properties of High-Temperature Superconductors,**” Rostov-on-Don, With 309 Figures and 44 Tables Springer

(December 2006).

[8]- Jeffrey E. Sonier, Hon. B.Sc. Univ. of Western Ont, “ **μ + SR Measurement of the temperature dependence of the magnetic penetration depth in YBa₂Cu₃O_{6.95} single crystal,**” .The University of British Columbia 6224 Agricultural Road Vancouver, Canada V6T 1W5 (1994).

[9]- Neeraj Khare, “**Handbook of High Temperature Superconductor Electronics,**” National Physical Laboratory, New Delhi, India, 1st edition, , ISBN-13: 978-0824708238, CRC, (May 2003)

[10]- Ivan K. Schuller, Arun Bansil, Dimitri N. Basov, Malcolm R. Beasley, Juan C. Campuzano, Jules P. Carbotte, Robert J. Cava, George , Dale J. van Harlingen, and David Welch , “**A Snapshot View of High Temperature Superconductivity 2002,**” Los Alamos National Laboratory, Brookhaven National Laboratory (April 2002).

[11]- Towfic L. Shomar, “**Phenomenologism vs fundamentalism: The case of superconductivity,**” Department of Human and Social Sciences, Philadelphia University, Current Science, VOL. 94, NO. 10, (25 MAY 2008)

[12]- <http://www.answers.com/topic/phase-transition-1?cat=technology>

[13]- O.G. Vendik, I.B. Vendik and D.V. Kholodniak, “**Applications of High-Temperature Superconductors in Microwave Integrated Circuits,**” e-mail: OGVendik@eltech.ru ..Mater.Phys.Mech.2 (2000) 15-24. Advanced Study Center Co. Ltd. (February 2000)

[14]- Randy Simon, “**High-Temperature Superconductor Filter Technology Breaks New Ground,**” www.rfdesign.com. RF military electronics (August 2003).

[15] - Jia-Sheng Hong, M. J. Lancaster, John Wiley & Sons, Inc, "**Microstrip Filters for RF/Microwave Applications**," ISBNs: 0-471-38877-7 (Hardback); 0-471-22161-9 (Electronic). A WILEY-INTERSCIENCE PUBLICATION
JOHN WILEY & SONS, INC. NEW YORK (2001).

[16]- Chien-Jang Wu, Member, "**Simulations of Microwave Characteristics of High-Temperature Superconducting Microstrip Lines by Using an Empirical Two-Fluid Model**," IEEE TRANSACTIONS ON APPLIED SUPERCONDUCTIVITY, VOL. 12, NO. (2 JUNE 2002)

[17]- James S. Brooks (Author) and J. Robert Schrieffer (Editor), "**Handbook of High-Temperature Superconductivity: Theory and Experiment**," 1st edition, ISBN-13: 978-0387350714, Springer, (May 2007)

[18]- G.P. Srivastava a, * Vincent Mathew ' , Agnikumar G, "**Studies on high-Tc superconducting microstrip resonator**," Vedeshwar 'a Department of Electronic Science, Unwisely of Delhi South Campus, NW Delhi 11002, India. Volume 292, Issues 1-2, Pages 83-88, (10 December 1997)

[19]- Derek S. Linden, 2d Lt, USAF, "**A Modified Two-Fluid Model of Conductivity for Superconducting Surface Resistance Calculation**," Rank and branch: 2d Lt, USAF. NSN 7540-01-280-5500 (1993)

[20]- Roland HOTT, "**Application Fields Of High-Temperature Superconductors**," Narlikar, A.V; Springer, Berlin, 2004; p.35; (September 2003).

[21]- G. Subramanyam, WV Keuls, FA Miranda, "**A K-band-frequency agile microstrip band pass filter using a thin-film HTS/ferroelectric/dielectric**

multilayer configuration,” IEEE Trans Microwave Theory Tech MTT-48:525–530, 2000. Date of Current Version: (06 August 2002).

[22]- Firas Mohammed Ali Al-Raie, “**Estimate Microstrip Substrate Relative Dielectric Constant,**” Microwave & RF, Penton (December 2007).

[23]-<http://www.microwaves101.com/encyclopedia/microstrip.cfm>

[24]- Robert E. Collin, “**Foundations for Microwave Engineering,**” second edition, The IEEE Press Series on Electromagnetic Wave Theory, Donald G. Dudley (series editor), ISBN: 078036031, McGraw Hill, (1992).

[25]- Rohit Sharma, T. Chakravarty, Sunil Bhooshan, and A. B. Bhattacharyya, “**Characteristic Impedance of a Microstrip-Like Interconnect Line in Presence of Ground Plane Aperture,**” Hindawi Publishing Corporation International Journal of Microwave Science and Technology . Volume 2007, Article ID 41951, 5 pages doi:10.1155/2007/41951 (December 2007).

[26]- Leo G. Maloratsky Principal Engineer, “**Reviewing the Basics of Microstrip Lines,**” Microwave & RF (March 2000).

[27]-<http://personal.ee.surrey.ac.uk/Personal/D.Jefferies/mstrip.html>

[28]- N Tellmann, N Klein, U Dahne, a Scholen, H Schulz, H Chaloupka, “**High QLaAlO3 dielectric resonator shielded by YBCO-films,**” IEEE Trans Appl Supercond 4:143–148, 1994 Date of Current Version:(06 August 2002)

[29]- S Miura, T Yoshitake, H Tsuge, T Inui, **“Properties of shielded microstrip line resonators made from double-sided Y1Ba2Cu3Ox films,”** IEEE Trans Appl Supercond Pages:4440–4442. SSN: 0021-8979 (07 July 2009)

[30]- Maare Mekonen Advisor .Dr. Ing. Mohammod Abdo Addis Ababa Ethiopia, **“BANDWIDTH IMPROVEMENT OF MICROSTRIP ANTENNA USING LOG PERIODIC TECHNIQUE,”** Addis Ababa University School Of Graduate Studies Faculty Of Technology. AUU-Digital Library (March 2008).

[31]-David Michael Fanning, **“Structure Property Relations in Ferroelectric Materials,”** University of Illinois at Urbana-Campaign Fanning-groups.mrl.uiuc.edu (2000).

[32]-Ahmad Safari, Rajesh K. Panda, and Victor F. Janas, **“Ferroelectric Ceramics: Processing, Properties & Applications,”** Department of Ceramic Science and Engineering, Rutgers University, USA
<http://www.rci.rutgers.edu/~ecerg/projects/ferroelectric.html>

[33]- Nicolas Stucki, **“Artificial Ferroelectric Materials,”** Université de Genève, Faculté des Sciences, le 25 février (2008)

[34]- Lisa Malin, Faculté Des Sciences ET Techniques De L 'ingénieur, École Polytechnique Fédérale De Lausanne, **“Ferroelectric Gate on AlGaIn/GaN Heterostructures,”** Lausanne, EPFL, EPA (June 2007).

[35]- B. Hehlen (Laboratoire des Colloïdes, Verres, ET Nanomatériaux (LCVN)) and J. Rouquette (Institut Charles Gerhardt (ICG)), **“Order-disorder in ferroelectric-relaxors,”** Signatures are on file in the Graduate School. (2007).

[36]- C.A. Randall, R.E. Newnham, and L.E, **“History of the First Ferroelectric Oxide, BaTiO₃,”** Cross Materials Research Institute The Pennsylvania State University University Park, PA 16802 USA (2004).

[37]- Etzold, K.F. IBM T. J. Watson Research Center, the Electrical Engineering Handbook, by Ed. Richard C. Dorf, CRC Press LLC, **“Ferroelectric and Piezoelectric Materials,”** © CRC Press LLC (2000).

[38]- Alfredo Sánchez, César Zambranob, Luis Miguel Prócela, Arvids Stashansa, Departamento de Química, Colegio Politécnico, **“Structural and Electronic Properties of PZT,”** Universidad San Francisco de Quito, Proceedings of the SPIE, Volume 5122 . Correspondence: Email: alfredox@hotmail.com (2003)

[39][http://materials.globalspec.com/Specifications/Materials_Chemicals_Adhesives/Ceramics_Glass_Materials/Electroceramics/Piezoelectric Ceramics](http://materials.globalspec.com/Specifications/Materials_Chemicals_Adhesives/Ceramics_Glass_Materials/Electroceramics/Piezoelectric_Ceramics)

[40]- Zuo-Guang Ye, The Institute of Materials, Minerals and Mining, CRC Press, , **“Handbook Of Dielectric, Piezoelectric And Ferroelectric Materials Synthesis, Properties And Applications ,”** 2 Editions, ISBN 978-1-4200-7085-9,CRC.WP (2008).

[41]-Tao Hu, **“BST-Based Low Temperature Co-Fired Ceramic (Ltcc) Modules for Microwave Tunable Components,”** Department of Electrical and Information Engineering, Faculty of Technology, University of Oulu . Oulu, Finland (March 2004),

[42]- Alexander Mielke and Aida M. Timofte, Eccomas Thematic Conference on Smart Structures and Materials, **“Modeling and Analytical Study for Ferroelectric Materials,”** ECCOMAS THEMATIC CONFERENCE ON SMART STRUCTURES AND MATERIALS .C.A. Mota Soares et al. (Eds.)Lisbon, Portugal, (July 18 - 21, 2005)

[43]-<http://www.manep.ch/en/technological-challenges/ferroelectrics.html>

[44]- Klaus Dragosits, **“Modeling and Simulation of Ferroelectric Devices,”** <http://www.iue.tuwien.ac.at/phd/dragosits/diss.html>. (2001-02-27)

[45]-Rui Zhang, PhD Thesis, **“Novel Planar Microstrip and Dielectric Resonator Filters,”** Department of Electrical Engineering, University of Waterloo, Ontario, Canada. ©Rui Zhang (2007).

[46]- F.W. Van Keuls, R.R. Romanofsky, and F.A. Miranda Lewis Research Center, Cleveland, Ohio, **“ Several Microstrip-Based Conductor/Thin Film Ferroelectric Phase Shifter Designs Using (YBa₂CU₃O_{7-δ})/ SrTiO₃/ LaAlO₃ Structures,”** © 2000 IEEE (May 1998).

[47]- Satreerat K. Hodak, Charles T. Rogers, Elsevier Science Ltd. Oxford, UK, **“Microstructure and dielectric response of SrTiO₃/NdGaO₃ interdigitated capacitors,”**Springer (January 2008).

[48]- J. Sok, J. S. Lee and E. H, **“Tunability of Resonant Frequencies in a Superconducting Microwave Resonator by Using SrTiO₃ Ferroelectric Films,”** Lee, Journal of the Korean Physical Society, pp. 158_161 ,Vol. 32, (1, January 1997).

[49]- Brian H. Moeckly, Luke S.-J. Peng, and Gerd M. Fischer, **“Tunable HTS Microwave Filters Using Strontium Titanate Thin Films,”** IEEE Manuscript received, (August 6, 2002).

[50]- P Bao, T J Jackson, X Wang and M J Lancaster, **“Barium Strontium Titanate thin film varactors for room-temperature microwave device applications,”** Department of Electronic, Electrical and Computer Engineering, University of Birmingham, Birmingham, IOP science (2008).

[51]-T. Chakravarty, Sunil Bhooshan, and A. B. Bhattacharyya, **“Characteristic Impedance of a Microstrip-Like Interconnect Line in Presence of Ground Plane Aperture Rohit Sharma,”** International Journal of Microwave Science and Technology. Volume 2007, Article ID 41951, 5 pages. ; Accepted(17 December 2007)

[52]- Satreerat Kampangkeaw and Charles T. Rogers, **“Off Axis Growth of Strontium Titanate Films with High Dielectric Constant Tuning and Low Loss,”** Mat. Res. Soc. Symp. Proc. Vol. 720 © 2002 Materials Research Society.