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Publications

Peer Reviewed Journals

1. E. Fotheringham, S. Römisch, P. C. Smith, D. Popović, D. Z. Anderson, Z. Popović, "A lens antenna array with adaptive optical processing," *IEEE Transactions on Antennas and Propagation*, Vol. 50, No. 5, May 2002, pp. 607-617.
2. D. Z. Anderson, V. Damião, A. Sullivan, D. Popović, Z. Popović and S. Römisch, "-70 dB optical carrier suppression by two-beam coupling in photorefractive media," *Applied Physics B*, Vol. 72, No.6, 2001, pp. 743-748.
3. S. Römisch, J. Kitching, E. Ferrè-Pikal, L. Hollberg and F. L. Walls, "Performance evaluation of optoelectronic oscillators," *IEEE Transactions on Ultrasonic, Ferroelectrics, and Frequency Control*, Vol. 47, No. 5, September 2000.
4. F. Cisternino, R. Girardi, S. Römisch, R. Calvani, E. Riccardi, P. Garino, "A Regenerative Pre-scaled Clock Recovery for High Bit Rate OTDM Systems," *Optical Fiber Technology*, Vol. 5, No. 3, July 1999, pp. 260-274.

Conference Proceedings

1. S. Römisch, R. Lutwak, "Low-power, 4.6-GHz Stable Oscillator for CSAC," *Proc. of the IEEE Int'l Frequency Control Symposium*, Miami, FL, June 2006.
2. S. Römisch, M. D. Weiss, "Experimental Investigation of Phase Noise in High-efficiency Class-E Amplifiers," *Proc. of the IEEE Int'l Frequency Control Symposium*, Montreal, Canada, August 2004.
3. S. Römisch, F. G. Ascarrunz, "Improved Characterization of Feed-forward Noise Cancellation Scheme for Microwave Amplifiers," *Microwave Symposium Digest, 2004 IEEE MTT-S International*, Vol. 2, June 2004, pp. 1179 – 1182.
4. D. Anderson, E. Fotheringham, D. Popović, Z. Popović, S. Römisch, P. Smith, "Smart and multibeam diversity antenna arrays with high-bandwidth analog signal processing," *IEEE Topical Conf. Wireless Comm. Techn. Digest*, Honolulu, Oct 2003.
5. N. Ashby, S. Römisch, S. R. Jefferts, "Design of Endcaps for TE011 Microwave Cavities in Primary Frequency Standards," *Proc. of the IEEE International Frequency Control Symposium*, Tampa, FL, May 2003, pp. 1076-1083.
6. S. Römisch, F. G. Ascarrunz, "An effective noise-reduction scheme for microwave amplifiers," *Proceedings of the IEEE International Frequency Control Symposium*, Tampa, FL, May 2003, pp. 401-404.

7. S. Römisch, D. Popović, N. Shino, R. Q. Lee, Z. Popović, "Multi-Beam Discrete Lens Arrays with Amplitude-Controlled Steering," *2003 IEEE MTT-S International*, Vol. 3, June 2003, pp. 1669 – 1672.
8. D. Popović, S. Römisch, N. Shino, Z. Popović, "Multibeam planar lens antenna arrays," 2003 GOMAC Digest, Tampa, FL, Apr 2003.
9. R. Q. Lee, Z. Popović and S. Römisch, "Multi-beam phased array antennas," *Proc. of the 26th Annual Antenna Appl. Symp.*, 18-20 Sept. 2002, Monticello, IL.
10. S. Römisch, N. Shino, D. Popović, P. Bell, Z. Popović, "Multibeam planar discrete millimeter-wave lens for fixed-formation satellites," *Proceedings of the XXVIIIth General Assembly of the International Union of Radio Science in Maastricht*, the Netherlands, 18th – 24th August 2002.
11. D. Z. Anderson, E. Fotheringham, J. H. Loui, D. Popović, P. Smith, S. Römisch, Z. Popović, "Optically smart X-band antenna array," *Lasers and Electro-Optics Conference CLEO '02 Technical Digest, Summaries of Papers Presented at the*, 19-24 May 2002, vol.1, p. 101.
12. D. Z. Anderson, E. Fotheringham, S. Römisch, P. C. Smith, Z. Popović, "A compact prototype optical processor for X-band arrays," *Microwave Photonics, 2001. MWP '01. 2001 International Topical Meeting on*, 2001, pp. 227 –230.
13. D. Z. Anderson, V. Damião., E. Fotheringham, D. Popović, S. Römisch, Z. Popović, "Optically smart active antenna arrays," *Microwave Symposium Digest 2000 IEEE MTT-S International*, Vol. 2, 2000, pp. 843-846.
14. S. Römisch, J. Kitching, E. Ferrè-Pikal, L. Hollberg and F. L. Walls, "Performance evaluation of optoelectronic oscillators," *Proceedings of the Joint Meeting of the European Frequency and Time Forum and the IEEE International Frequency Control Symposium*, Vol. 2, 1999, pp. 561-564.
15. S. Römisch and A. De Marchi, "Noise predictions for optoelectronic oscillators using different models," *Proceedings of the Joint Meeting of the European Frequency and Time Forum and the IEEE International Frequency Control Symposium*, Vol. 2, 1999, pp. 1100-1104.
16. F. Cisternino, R. Girardi, S. Römisch, R. Calvani, E. Riccardi, P. Garino, "A novel approach to pre-scaled clock recovery in OTDM systems," *24th European Conference on Optical Communication*, Vol. 1, 1998, pp. 477-478.
17. S. Römisch, R. Girardi, F. Cisternino, A. De Marchi, "Estrazione del sincronismo in trasmissioni OTDM mediante divisione di frequenza con tecniche opto-elettroniche," *Documenti tecnici CSELT*, DTR97.1080, 1997.
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20. M. Siccardi, S. Römisch, F. W. Walls, A. De Marchi, "A low noise 100 MHz distribution amplifier for precision metrology," in *Proc. of the EFTF*, 1995.