

Digital-photonic synthesis of ultra-low noise tunable signals from RF to 100 GHz

T.M. Fortier,^{1*} A. Rolland,¹ F. Quinlan,¹ F.N. Baynes,¹
A.J. Metcalf,² A. Hati,¹ A.D. Ludlow,¹ N. Hinkley,¹ M. Shimizu,³ T. Ishibashi,³
J.C. Campbell⁴ and S.A. Diddams^{1*}

¹NIST, Time and Frequency Division, 325 Broadway MS 847, Boulder CO 80305, USA

²Purdue University, West Lafayette, IN 47907, USA

³NTT Electronics Corporation Naka-shi, Ibaraki-ken, 311-0122, Japan

⁴University of Virginia, 351 McCormick Road, Charlottesville, VA, USA

*To whom correspondence should be addressed; E-mail: fortier@boulder.nist.gov

A. Rolland and F.N. Baynes are now with National Physical Laboratory, Teddington, UK

The demand for higher data rates and better synchronization in communication and navigation systems necessitates the development of new wideband and tunable sources with noise performance exceeding that provided by traditional oscillators and synthesizers. Precision synthesis is paramount for providing frequency references and timing in a broad range of applications including next-generation telecommunications, high precision measurement, and radar and sensing. Here we describe a digital-photonic synthesizer (DPS) based on optical frequency division that enables the generation of widely tunable signals from near DC to 100 GHz with a fractional frequency instability of 1 part in 10^{15} . The spectral purity of the DPS derived signals represents an improve-

Digital Photonic Synthesis Of Ultra Low Noise Tunable

Yassine Slimani, Essia Hannachi



Digital Photonic Synthesis Of Ultra Low Noise Tunable:

Photonic Microresonator Research and Applications Ioannis Chremmos, Otto Schwelb, Nikolaos Uzunoglu, 2010-06-09 The technology surrounding the design and fabrication of optical microresonators has matured to a point where there is a need for commercialization Consequently there is a need for device research involving more advanced architectures and more esoteric operating principles Photonic Microresonator Research and Applications explores advances in the fabrication process that enable nanometer waveguide separations exceptionally smooth surfaces essential to reach Q factors in the order of 10⁶ 10⁸ and high index contrast materials **Index to IEEE Publications** Institute of Electrical and Electronics

Engineers, 1998 Issues for 1973 cover the entire IEEE technical literature *Optics Letters*, 2005 **Scientific and Technical Aerospace Reports**, 1994 **Dissertation Abstracts International**, 2008 **Microwave Journal**, 2006

Advancement of Photonics for Space Edward W. Taylor, 1997 Proceedings of SPIE present the original research papers presented at SPIE conferences and other high quality conferences in the broad ranging fields of optics and photonics These books provide prompt access to the latest innovations in research and technology in their respective fields Proceedings of SPIE are among the most cited references in patent literature **Science Abstracts**, 1995 *Electrical & Electronics Abstracts*, 1997 **International Aerospace Abstracts**, 1999 **Telecommunications Abstracts**, 1989 **American Doctoral Dissertations**, 2001 Energy Research Abstracts, 1985 **Science Citation Index**, 1995 Vols for 1964 have guides and journal lists Physics Briefs, 1993 **Government Reports Announcements & Index**, 1996 □□□□, 2002

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Unveiling the Magic of Words: A Overview of "**Digital Photonic Synthesis Of Ultra Low Noise Tunable**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Digital Photonic Synthesis Of Ultra Low Noise Tunable**," a mesmerizing literary masterpiece penned by a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve into the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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