

UNIVERSITY OF CALIFORNIA

Santa Barbara

**A Linear Coherent Integrated Receiver based on a  
Broadband Optical Phase-Locked Loop**

A Dissertation submitted in partial satisfaction of  
the requirements for the degree

Doctor of Philosophy in Electrical and Computer Engineering

by

Anand Ramaswamy

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The dissertation of Anand Ramaswamy is approved.

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ss 2010

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Loop

Anand Ramaswamy

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# Acknowledgments

*This dissertation is dedicated to my parents,  
Usha and Ram and my grandparents, Pati and  
Thatha*

# Vita of Anand Ramaswamy

## *PERSONAL*

Born, February 6, 1983, Bangalore, India

## *EDUCATION*

Bachelor of Science in Electrical Engineering (Minor in Physics) , University of Southern California, Los Angeles, May 2005

Master of Science in Electronics and Photonics, Electrical and Computer Engineering Department, University of California Santa Barbara, June 2007

## *AWARDS*

# Journal Publications

- [1] A. Ramaswamy, L. A. Johansson, J. Klamkin, H. F. Chou, C. Sheldon, M. J. Rodwell, L. A. Coldren, and J. E. Bowers, “Integrated coherent receivers for high-linearity microwave photonic links,” *Lightwave Technology, Journal of*, vol. 26, no. 1, pp. 209–216, January 2008.

# Abstract

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Anand Ramaswamy



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