

Kenneth Pedrotti –Associate Professor

7/79-6/85 Ph.D. in Electrical Engineering, Stanford University.
9/78-7/79 MS. in Quantum Electronics, University of California at Berkeley.
9/74-6/78 BS. in Engineering Physics, University of California at Berkeley.

3 years of service starting from original appointment date of July 2000

Other related experience--teaching, industrial, etc.

10/98-4/2001 • Manager Mixed-Signal VLSI- Rockwell Science Center, Thousand Oaks, CA
7/97-10/98 • Principal Engineer- Rockwell Semiconductor Systems, Newbury Park, CA
10/85-7/97 • Member of Technical Staff- Rockwell Science Center, Thousand Oaks, CA

Consulting

11/2002-2/2002 • Expert witness Brobeck Phleger & Harrison LLP
8/2002-Present • Consultant to Taurus Inc.
9/2001-3/2002 • Consultant MILCOM-Rockwell Scientifics
9/2001-9/2002 • Consultant-OEpic InP based High Speed Electronics for Lightwave Systems

Patents

Transferred Electron Effective Mass Modulator	Issued 11/26/91
Integrated Variable Gain Power Amplifier And Method	Issued 11/10/98
Frequency Detection Circuit for Clock Recovery	Filed 2/23/99
Integrated Tunable Inductance Network and Method	Issued 2/16/99
Monolithically Integrated Switched Capacitor Bank Using Micro Electro Mechanical System (MEMS) Technology	Issued 3/9/99
Tunable- Trimmable Micro Electro Mechanical System (MEMS) Capacitor	Issued 9/28/99
Submicron Thermal Imaging method and enhanced resolution (super-resolved) AC-coupled imaging for thermal inspection of integrated circuits	Filed 1/7/02

2 additional patents are in preparation by patent counsel for filing in the field of Clock and Data Recovery

Papers in Last 5 Years

Metzger, A.G.; Chang, C.E.; Pedrotti, K.D.; Beccue, S.M.; Keh-Chung Wang; Asbeck, P.M. "A 10-Gb/s high-isolation, 16*16 crosspoint switch implemented with AlGaAs/GaAs HBT's." IEEE Journal of Solid-State Circuits, vol.35, (no.4), IEEE, April 2000. p.593-600.

K. D. Pedrotti "High-speed Circuits for Lightwave Communications" edited by K C Wang, in Selected Topics in Electronics and Systems- Vol. 13, edited by P K Tien, World Scientific Publishing, Singapore, 1999. 1-34

K. D. Pedrotti "High Speed Circuits for Lightwave Communication" International Journal of High Speed Electronics and Systems, Vol. 9, #2 (1998), 313-346

K. Pedrotti, C. Chang, A. Price, S. Beccue, A. D. Campana, G. Gutierrez, D. Meeker, D. Wu, K. C. Wang, A. Metzger, P. M. Asbeck, D. Huff, N. Kwong, M. Swass, S. Z. Zhang, J. Bowers, "WEST 120 Gb/s 3x3 wavelength division multiplexed crossconnect" Optical Fiber Communications Conference 1998, San Jose, CA paper TuJ7

Scientific and professional societies

Member of IEEE: LEOs, EDS, SSCS, OSA, SPIE

Honors and awards

10/14/96 • Recipient of R&D 100 Award for a high speed wavelength division multiplexed Network Access Module (NAM) Philadelphia, PA

Institutional and professional service in the last five years

4/2003 • Short Course-Silicon Valley Section of IEEE MTT at Stanford Linear Accelerator Center on Integrated Circuits for Lightwave Communications

7/2001 & 11/2001 • Instructor for Mead Microelectronics, Inc.- "IC Design for Optical Communication Systems" 7/25-7/29 Lausanne, Switzerland, 11/29/2001 San Diego, CA

2001-Present • Associate Editor IEEE Transactions on Communications

1998-2000 • Member of the IEEE Solid State Circuit Society Education Committee

1998-1999 • Member of the IEEE Solid State Circuit Society Board of Governors, (Board of governors, Voting Member)

2001-Present • EE Department Undergraduate Director

2001 • School of Engineering Curriculum Committee

2002 • Baskin Engineering Alterations 2 planning committee

2000-Present • Journal of Solid State Circuits reviewer