

BIOGRAPHICAL SKETCH: ROBERT L. BORRELLI

Professional Preparation

- 1953 Stanford University: B.S. in Mathematics
- 1954 Stanford University: M.S. in Mathematics
- 1963 University of California, Berkeley: Ph.D. in Applied Mathematics

Appointments

- 1959–62 Research Engineer, General Telephone and Electronics Lab, Palo Alto, CA
- 1962–63 Assistant Professor, U.S. Naval Postgraduate School, Monterey, CA
- 1963–64 Senior Engineer Specialist, Philco-Ford Corporation, Palo Alto
- 1964–67 Assistant Professor, Harvey Mudd College, Claremont, CA
- 1967–72 Associate Professor, Harvey Mudd College, Claremont
- 1972–2000 Professor of Mathematics, Harvey Mudd College, Claremont
- 1975–77 Co-Director, Mathematics Clinic, Claremont
- 1977–78 National Science Foundation Faculty Fellow
visiting the Economics Department, University of Bonn, Germany
- 1978–80 Co-Director, Mathematics Clinic, Claremont
- 1981–90 Chair, Mathematics Department, Harvey Mudd College, Claremont
- 1981–90 Director, Mathematics Clinic, Claremont
- 1993–2000 Director, Mathematics Clinic, Claremont

Publications

1. R. Borrelli, C. Coleman, *Differential Equations: A Modeling Approach*, Prentice-Hall, 1987.
2. A. Bayer, R. Borrelli, D. Carowell, J. Yeu, “Penetration ceftazadime and amikacin in tricuspid and aortic vegetations in the rabbit model”, *Chemotherapy*, 1989.
3. R. Borrelli, W. Boyce, C. Coleman, *Laboratory Manual for Ordinary Differential Equations*, Wiley Pub. Co., 1992.
4. R. Borrelli, C. Coleman, “Computers, Lies and the Fishing Season”, *College Mathematics Journal*, 25 (1994), 401–412.
5. R. Borrelli, “The Hands-on Approach in ODE Courses”, in *Mathematics Today*, (McGraw-Hill Newsletter), July 1994.
6. R. Borrelli, C. Coleman, “New Directions for the Introductory Differential Equations Course”, in the volume *Calculus: the Dynamics of Change*, MAA Notes #39, A. Wayne Roberts editor, 1996.
7. R. Borrelli, C. Coleman, *Differential Equations: A Modeling Perspective*, John Wiley & Sons, New York, 1998.
8. R. Borrelli, C. Coleman, “Modeling and Visualization in the Introductory ODE Course”, in *Revolutions in Differential Equations*, M. Kallaher editor, MAA Notes #5, 1999.
9. R. Borrelli, C. Coleman, *Differential Equations: A Modeling Perspective*, second edition, John Wiley & Sons, New York, 2004.

Synergistic Activities

- Consultant on Relations with Industry for COMAP (Consortium for Mathematics and its Applications), 1980–Present.
- Member, Executive Committee for SASIAM (School for Advanced Studies in Industrial and Applied Mathematics), Tecnopolis, Bari, Italy, 1985–1988.
- Co-Chairman (with Frank Giordano), Judging Committee, COMAP Modeling Competition in Mathematics, 1991–Present.
- Member, Board of Trustees, IPAM (Institute for Pure and Applied Mathematics), 2000–2003.
- Winner of the 1993 EDUCOM award for Best Mathematical Curriculum Innovation. Given for “Differential Equations Laboratory Workbook” (C. Coleman and W. Boyce co-authors), John Wiley & Sons, Inc., 1992.
- Winner of the 1998 New Media Invision Award of Excellence for ODE Architect.
- Founding President of Innosoft International, Inc., a California “C” corporation founded in October, 1987, which develops, sells, and distributes electronic mail software. To date its products have been sold to over 2300 sites in over 51 countries. Innosoft was sold to Sun Microsystems in 2000.

Recent Collaborators and Other Affiliations

Collaborators:

- Courtney Coleman, Department of Mathematics, Harvey Mudd College

Ph.D. advisor: Heinz Otto Cordes, University of California, Berkeley.