TEXAS STATE VITA

Dr. Gregory B. Passty

1. **Academic/Professional Background**

Professor and Graduate Advisor, Department of Mathematics.

Assistant Dean for Accreditation, College of Science & Engineering Email: passty@txstate.edu

**Educational Background**

Ph.D. 1978, University of Southern California, in Mathematics

*Dissertation: Asymptotic Behavior of an Implicit Differencing Scheme Associated with Accretive Operators in Banach Spaces*

M.A. 1974, University of Southern California, in Mathematics

B.A. 1974, University of Southern California, in Mathematics

**University Experience**

Assistant Dean, College of Science & Engineering, Texas State University, Jan 1, 2009 – present

Professor, Department of Mathematics, Texas State University, Sep 1, 1992 – present

Associate Dean, College of Science, Texas State University, Jul 1, 2005 – Dec 31, 2005

Interim Dean, College of Science, Texas State University, Nov 15, 2003 – Jul 1, 2005

Associate Dean, College of Science, Texas State University, Aug 15, 1997 – Nov 15, 2003

Acting Dean, School of Science, Texas State University, Dec 1, 1996 – Aug 15, 1997

Assistant Dean, School of Science, Texas State University, Sep 1, 1994 – Dec 1, 1996

Associate Prof., Department of Mathematics, Texas State University, Sep 1, 1985 – Sep 1, 1992

Assistant Prof., Department of Mathematics, Texas State University, Sep 1, 1982 – Sep 1, 1985

Visiting Assistant Professor, Georgia Institute of Technology, Sep 1, 1979 – July 31, 1982

Assistant Professor, University of Southern California, Sep 1, 1978 – Aug 15, 1979

1. **Teaching**

B. Courses Taught at Texas State University:

MATH 1315 – COLL ALGEBRA

MATH 1316 – SURVEY CONTEMP MATH

MATH 1319 – MATH BA & ECO I

MATH 1329 – MATH BUS & ECO II

MATH 2358 – DISCRETE MATH I

MATH 2471 – CALCULUS I

MATH 2472 – CALCULUS II

MATH 3323 – DIFFEREN EQUAT

MATH 3377 – LINEAR ALGEBRA

MATH 3380 – ADV CALCULUS I

MATH 4306 – FOURIER SERIES

MATH 4311 – INTRO HIST MATH

MATH 4315 – ADV CALCULUS II

MATH 4336 – TOPICS APP MATH

MATH 4382 – LIT MDN HIST MATH APP

MATH 5301 – PART DIFF EQUAT

MATH 5311 – FOUND DIFF EQUA

MATH 5312 – FUNCT COMPX VAR

MATH 5317 – PROB ADV MATH

MATH 5336 – STUDIES APP MATH

MATH 5336 – TOPIC APPL MATH

MATH 5382 – REAL ANALYSIS

MATH 5399A – THESIS

MATH 5399B – THESIS

MATH 5399 – THESIS

MATH 7301 – STUDIES IN MATH

MATH 7302 – HISTORY OF MATH

MATH 7363A – COMPLEX ANALYSIS

1. Scholarly/Creative
2. Works in Print
3. Books:

d. Chapters in Books:

Refereed:

Passty, G.B., Torrejon, R. (1988) On extending the router sum to monotone operators, *Linear Circuits, Systems and Signal Processing: Theory and Applications* (pp. 391-395). North Holland.

Passty, G.B., Torrejon, R. (1985) The parallel sum of generalized gradients, *Trends in the Theory and Practice of Non-Linear Analysis* (pp. 371-376). North Holland.

Barnsley, M.F., Herod, J.V., Mosher, D.L., Passty, G.B. (1981) Analysis of Boltzmann equations in Hilbert space by means of a nonlinear eigenvalue property. *Spectral Theory of Differential Operators* (pp. 45-52). North Holland.

1. Articles

a. Refereed Journal Articles:

Passty, G.B. (1986). The parallel sum of nonlinear monotone operators. *Nonlinear Analysis – Theory, Methods and Applications, 10,* 215-227.

Barnsley, M.F., Herod, J.V., Mosher, D.L., Passty, G.B. (1983). Solutions for a model Boltzmann equation by monotonicity methods. *Houston Journal of Mathematics, 9,* 345-355.

Passty, G.B. (1982). Construction of fixed points for asymptotically nonexpansive mappings. *Proceedings of the American Mathematical Society, 84,* 212-216.

Passty, G.B. (1981). Preservation of the asymptotic behavior of a nonlinear contraction semigroup by backward differencing. *Houston Journal of Mathematics, 7,* 103-110.

Barnsley, M.F., Herod, J.V., Mosher, D.L., Passty, G.B. (1981). Some operators which commute in a nonlinear Boltzmann equation. *Lettere al Nuovo Cimento, 32,* 437-442.

Barnsley, M.F., Herod, J.V., Jory, V.V., Passty, G.B. (1981). The Tjon-Wu equation in Banach space settings. *Journal of Functional Analysis, 43,* 32-51.

Passty, G.B. (1979). Almost convergence of the infinite product of resolvents in Banach spaces. *Nonlinear Analysis – Theory, Methods and Applications, 3,* 279-282.

Passty, G.B. (1979). Ergodic convergence to a zero of the sum of monotone operators in Hilbert space. *Journal of Mathematical Analysis and Applications, 7,* 383-390.