

List of Publications

BOOKS

- 1 *An Analysis of the Finite Element Method*, with George Fix, Prentice-Hall (1973). Second edition, Wellesley-Cambridge Press (2008).
- 2 *Linear Algebra and Its Applications*, Academic Press (1976). Second Edition: Harcourt Brace Jovanovich (1980). Third Edition: Brooks/Cole (1988). Fourth Edition: Brooks/Cole/Cengage (2006).
- 3 *Introduction to Applied Mathematics*, Wellesley-Cambridge Press (1986).
- 4 *Nonlinear Partial Differential Equations in Applied Science*, H. Fujita, P. Lax, G. Strang, editors, *Lecture Notes in Numerical and Applied Analysis* 5, Kinokuniya/North Holland (1982).
- 5 *Topics in Nonsmooth Mechanics*, J. J. Moreau, P. D. Panagiotopoulos, G. Strang, editors, Birkhäuser (1988).
- 6 *Calculus*, Wellesley-Cambridge Press (1991). Second Edition (2010).
- 7 *Introduction to Linear Algebra*, Wellesley-Cambridge Press (1993). Second Edition (1998). Third Edition (2003). Fourth Edition (2009).
- 8 *Wavelets and Filter Banks*, with Truong Nguyen, Wellesley-Cambridge Press (1996).
- 9 *Linear Algebra, Geodesy, and GPS*, with Kai Borre, Wellesley-Cambridge Press (1997).
- 10 *Computational Science and Engineering*, Wellesley-Cambridge Press (2007).
- 11 *Algorithms for Global Positioning*, with Kai Borre, Wellesley-Cambridge Press (2012).
- 12 *Essays in Linear Algebra*, Wellesley-Cambridge Press (2012).
- 13 *Differential Equations and Linear Algebra*, Wellesley-Cambridge Press (2014).

VIDEO LECTURES (MIT OpenCourseWare)

- 18.06 *Linear Algebra*
- 18.085 18.086 *Computational Science and Engineering*
- Highlights of Calculus*

ARTICLES

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- 5** *A note on the joint spectral radius*, with G.-C. Rota, *Proc. Netherlands Academy* **22** (1960) 379-381.
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- 7** *Eigenvalues of Jordan products*, *American Mathematical Monthly* **69** (1962) 37-40.
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- 9** *Polynomial approximation of Bernstein type*, *Transactions American Math. Soc.* **105** (1962) 525-535.
- 10** *Comparison theorems for supremum norms*, with H. Schneider, *Numerische Math.* **4** (1962) 15-20.
- 11** *Accurate partial difference methods I: Linear Cauchy problems*, *Archive Rational Mechanics and Analysis* **12** (1963).
- 12** *Accurate partial difference methods II: Non-linear problems*, *Numerische Math.* **6** (1964) 37-46.
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- 14** *Unbalanced polynomials and difference methods for mixed problems*, *SIAM Journal of Numerical Analysis* **2** (1964) 46-51.
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- 23** *Hyperbolic initial-boundary value problems in two unknowns*, J. Differential Equations **6** (1969) 161-171.
- 24** *On numerical ranges and holomorphic semigroups*, J. d'Analyse Mathématique **22** (1969) 299-318.
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