

TEACHING RESUME

Georgia State University

Complex Analysis (Alfhors)
Real Analysis (Royden)
Abstract Algebra (Herstein)
Topology (Undergraduate, Pervin)

University of Houston

Ring Theory (Lambek)
Homology (MacLane)
 C^* Algebras (various sources)
Lattice Theory & Boolean Algebra (Birkhoff, Halmos, other sources)
Topological Groups (Hewitt & Ross, Pontryagin, Karl Hoffmann)
Analytic Groups (Cohen)

North Carolina State University

Linear Algebra(Undergraduate)
Abstract Algebra(undergraduate)
Advanced Calculus (Taylor and Mann)
Probability Theory (Parzen) Multi-variable Mathematical Analysis (Undergraduate Marsden)
Complex Analysis (Churchill)
Intuitive Topology (Undergraduate, Arnold)
Geometry (Undergraduate)
Differential Forms (Undergraduate, Weintraub, DoCarmo)
Hilbert space, Fourier Series, Fourier Transforms (Undergraduate Physics Majors)

Topology (Graduate, Simmons, Willard)
Topological Groups (Hewitt & Ross, Pontryagin, Hoffmann)
Topological Semigroups (Research literature)
Algebraic Topology (Hilton & Spanier)
Automata Theory
Manifold Theory DeRham Theory (Marsden, Warner, multiple sources)
Geometry of Curves and Surfaces (O'Neil & DoCarmo, McCleary, Oprea)

Riemannian Geometry and Tensors (Graduate Laugwitz, Willmore, O'Neil, Milnor)
Lie Groups (Warner, Brocker & Dieck, Chevalley, Pontryagin)
Introduction to Lie Groups & Differential Equations (easier parts of Olver)
Spectral Theory & Foundations of Quantum Theory (Mackey, Reed & Simon)
Boundary Value Problems in Mathematical Physics (Stakgold)
Fiber Bundles (Kobayashi and Nomizu)
Gauge Theory (Bleecker & other sources)
Gauge Theory Physics Style (Jackiw with help from Bertlmann)
Quantum Field Theory (Bertlmann & Lee & Hatfield)
Pedestrian approach to Atiyah-Singer Index Theory (multiple sources)
Supermathematics : linear Algebra, Analysis, super differential forms

Abstract Algebra for Secondary Teachers
Mathematical Analysis for Secondary Teachers

Mathematical approach to topics from : Newtonian Relativity, Special Relativity, Electromagnetism, Thermodynamics, Hamiltonian Mechanics, Lagrangian Mechanics, Quantum Mechanics (undergraduate)