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Nota di contenuto	Table of Contents -- Preface -- Fibered Knots and Involutions on Homotopy Spheres -- A Fake 4-Manifold -- Approximating Cell-Like Maps of S^4 by Homeomorphisms -- Linking Numbers in Branched Covers -- Atomic Surgery Problems -- Smooth 4-Manifolds with Definite Intersection Form -- The Solution of the 4-Dimensional Annulus Conjecture -- An I-Invariant One Homology 3-Sphere that Bounds an Orientable Rational Ball -- Another Construction of an Exotic $S^1 \times S^3 \# S^2 \times S^2$ -- On Freedman's Reimbedding Theorems -- The Homology of the Mapping Class Group and its Connection to Surface Bundles over Surfaces -- Rochlin Invariant and I_{\pm} -Invariant -- Cobordism of Satellite Knots -- Complex Structures on 4-Manifolds -- Good Torus Fibrations -- 4-Dimensional Oriented Bordism -- A New Proof of the Homology Torus and Annulus Theorem -- Fibered Knots in S^4 -Twisting, Spinning, Rolling, Surgery, and Branching -- The Embedding Theorem for Towers -- Smooth Structures on 4-Manifolds -- Concordance of Links in S^4 -- Constructions of Quasipositive Knots and Links, II -- An Introduction to Self-Dual Connections -- 4-Manifold Problems.