Rational Homotopy Theory

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Book Condition: New. Publisher/Verlag: Springer, Berlin | Rational homotopy theory is a subfield of algebraic topology. Written by three authorities in the field, this book contains all the main theorems of the field with complete proofs. As both notation and techniques of rational homotopy theory have been considerably simplified, the book presents modern elementary proofs for many results that were proven ten or fifteen years ago. | I Homotopy Theory, Resolutions for Fibrations, and P-local Spaces.- 0 Topological spaces.- 1 CW complexes, homotopy groups and cofibrations.- (a) CW complexes.- (b) Homotopy groups.- (c) Weak homotopy type.- (d) Cofibrations and NDR pairs.- (e) Adjunction spaces.- (f) Cones, suspensions, joins and smashes.- 2 Fibrations and topological monoids.- (a) Fibrations.- (b) Topological monoids and G-fibrations.- (c) The homotopy fibre and the holonomy action.- (d) Fibre bundles and principal bundles.- (e) Associated bundles, classifying spaces, the Borel construction and the holonomy fibration.- 3 Graded (differential) algebra.- (a) Graded modules and complexes.- (b) Graded algebras.- (c) Differential graded algebras.- (d) Graded coalgebras.- (e) When $\Bbbk$ is a field.- 4 Singular chains, homology and Eilenberg-MacLane spaces.- (a) Basic definitions, (normalized) singular chains.- (b) Topological products, tensor products and the dgc, C (X;$\Bbbk$).- (c)...

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