

Rational Homotopy Theory And Differential Forms Progress In Mathematics Vol 16

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Rational Homotopy Theory And Differential In mathematics and specifically in topology, rational homotopy theory is a simplified version of homotopy theory for topological spaces, in which all torsion in the homotopy groups is ignored. It was founded by Dennis Sullivan and Daniel Quillen. This simplification of homotopy theory makes calculations much easier. Rational homotopy types of simply connected spaces can be identified with certain algebraic objects called Sullivan minimal models, which are commutative differential graded algebras Rational homotopy theory - Wikipedia Buy Rational Homotopy Theory and Differential Forms (Progress in Mathematics) 2nd ed. 2013 by Phillip Griffiths, John Morgan (ISBN: 9781461484677) from Amazon's Book Store. Everyday low prices and free delivery on eligible orders. Rational Homotopy Theory and Differential Forms (Progress ... Rational Homotopy Theory and Differential Forms (Progress in Mathematics Book 16) eBook: Phillip Griffiths, John Morgan: Amazon.co.uk: Kindle Store Rational Homotopy Theory and Differential Forms (Progress ... Introduction. "Rational homotopy theory is today one of the major trends in algebraic topology. Despite the great progress made in only a few years, a textbook properly devoted to this subject still was lacking until now.... The appearance of the text in book form is highly welcome, since it will satisfy the need of many interested people. Rational Homotopy Theory and Differential Forms | SpringerLink 1. Introduction. A rationalization of a simply connected space X is a map $f: X \rightarrow X_{\mathbb{Q}}$ such that the higher homotopy groups of $X_{\mathbb{Q}}$ are

uniquely divisible and induces an isomorphism $\pi_n(X) \otimes \mathbb{Z}Q \cong \pi_n(XQ)$ for each $n \geq 2$. We call the homotopy type of XQ the rational homotopy type of X and say X is rational if XQ is homotopy equivalent to X . Rational homotopy theory and differential graded category ... They add marvelous discussions of various related or connected themes, including Daniel Quillen's work on rational homotopy which they characterize as dual to the way Sullivan proceeded: "Instead of using differential forms as the basic model, Quillen uses differential graded Lie algebras." Rational Homotopy Theory and Differential Forms ... Included is a discussion of Postnikov towers and rational homotopy theory. This is then followed by an in-depth look at differential forms and de Thom's theorem on simplicial complexes. In addition, Sullivan's results on computing the rational homotopy type from forms is presented. Download [PDF] Rational Homotopy Theory And Differential ... rational homotopy theory is equivalent to the homotopy theory of reduced differential graded Lie algebras over Q and also to the homotopy theory of 2-reduced differential graded cocommutative coalgebras over Q . In Part I we exhibit a chain of several categories connected by pairs of Rational Homotopy Theory - JSTOR This way rational homotopy theory connects homotopy theory and differential graded algebra. Akin to the Dold-Kan correspondence, the Sullivan construction in rational homotopy theory connects the conceptually powerful perspective of homotopy theory with the computationally powerful perspective of differential graded algebra. rational homotopy theory in nLab Rational Homotopy Theory and Differential Forms:

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Second Edition: Rational Homotopy Theory and Differential Forms eBook by ... In each case the rational homotopy type of a topological space is the same as the isomorphism class of its algebraic model and the rational homotopy type of a continuous map is the same as the algebraic homotopy class of the corresponding morphism between models. These models make the rational homology and homotopy of a space transparent. Rational Homotopy Theory | SpringerLink (Submitted on 5 May 2013 (v1), last revised 20 Jan 2014 (this version, v2)) We construct two algebraic versions of homotopy theory of rational disconnected topological spaces, one based on differential graded commutative associative algebras and the other one on complete differential graded Lie algebras. [1305.1037] Disconnected rational homotopy theory Phillip Griffiths and John Morgan. Rational homotopy theory and differential forms. Second edition. Progress in Mathematics, 16. Springer, New York, 2013. xii+224 pp. ISBN 978-1-4614-8467-7, 978-1-4614-8468-4; John Morgan and Gang Tian. The geometrization conjecture. Clay Mathematics Monographs, 5. John Morgan (mathematician) - Wikipedia for more results on homotopy theory and applications to symplectic geometry.) Bazzoni and Muñoz study in [9] the K-homotopy types of nilmanifolds of low dimension. They prove that, up to dimension 5, the number of rational homotopy types of nilmanifolds is finite. However, in six dimensions the following result holds: Theorem 2.

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