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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 ...

Rational homotopy theory - Wikipedia

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 Tham's theorem on simplical complexes. In addition, Sullivan's results on computing the rational homotopy type from forms is presented. New to the Second Edition:

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8 Postnikov Towers and Rational Homotopy Theory. 9 deRham's theorem for simplicial complexes. 10 Differential Graded Algebras. 11 Homotopy Theory of DGAs. 12 DGAs and Rational Homotopy Theory. 13 The Fundamental Group. 14 Examples and Computations. 15 Functorality. 16 The Hirsch Lemma. 17 Quillen's work on Rational Homotopy Theory. 18 A1 ...

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Sullivan showed rational homotopy type of a simply connected space of finite type can be recovered from its polynominal de Rham algebra and the homotopy category of simply connected rational spaces of finite Q-type are equivalent to the homotopy category of 1-connected commutative dg-Q-algebras of finite type (see or where the authors call the equivalence the Sullivan–de Rham equivalence).

Rational homotopy theory and differential graded category ...

Title: Rational homotopy theory and differential graded category. Authors: Syunji Moriya (Submitted on 5 Oct 2008 , last revised 9 Jul 2009 (this

version, v2)) Abstract: We propose a generalization of Sullivan's de Rham homotopy theory to non-simply connected spaces.

[0810.0808] Rational homotopy theory and differential ...

*Updated content throughout the book, reflecting advances in the area of homotopy theory. With its modern approach and timely revisions, this second edition of Rational Homotopy Theory and Differential Forms will be a valuable resource for graduate students and researchers in algebraic topology, differential forms, and homotopy theory.

Rational Homotopy Theory and Differential Forms (Progress ...

By Phillip A. Griffiths and John W. Morgan: pp. 245. $16.00. (Birkhäuser Verlag, Switzerland, 1981.)

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rational spaces and the homotopy category of differential graded Lie algebras over Q. Felix Wierstra Koszul duality and rational homotopy theory. Rational homotopy theory Theorem (Sullivan) ... Felix Wierstra Koszul duality and rational homotopy theory. Minimal Sullivan models Question How do we construct a minimal Sullivan model for an algebra ...

Koszul duality and rational homotopy theory

categories of) the homotopy categories. This unifies rational homotopy theory of spaces with the homotopy theory of com-mutative differential graded algebras. Finally we will see some explicit calculations in Chapter 8. These calculations are remarkable easy. To prove for instance Serre's result on the rational homotopy groups of spheres, we

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springer, This completely revised and corrected version of the well-known Florence notes circulated by the authors together with E. Friedlander examines basic topology, emphasizing homotopy theory. 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 Tham's theorem on simplicial complexes.

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1 Introduction.- 2 Basic Concepts.- 3 CW Homology Theorem.- 4 The Whitehead Theorem and the Hurewicz Theorem.- 5 Spectral Sequence of a Fibration.- 6 Obstruction Theory.- 7 Eilenberg-MacLane Spaces, Cohomology, and Principal Fibrations.- 8 Postnikov Towers and Rational Homotopy Theory.- 9 deRham's theorem for simplicial complexes.- 10 Differential Graded Algebras.- 11 Homotopy Theory of DGAs ...

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homotopy equivalent, or two chain complexes equivalent if they are quasi-isomorphic. There are even looser notions of equivalence, for example, two spaces are Q-equivalent if their rational homologies are equivalent. Using the tools of homotopy theory, we can examine what kind of theory we get if we allow ourselves such a notion of equivalence.

RATIONAL HOMOTOPY THEORY

The computational power of rational homotopy theory is due to the discovery by Quillen [135] and by Sullivan [144] of an explicit algebraic formulation. 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 correspond ing ...

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Rational Homotopy Theory and Differential Forms (Progress ...

Sullivan approach. We review here the Sullivan approach to rational homotopy theory, where rational topological spaces are modeled by differential graded-commutative algebras over the rational numbers with good (cofibrant) representatives being Sullivan algebras which are formal duals to L-infinity algebras.. First we discuss how to define an analog of the construction of the de Rham dg ...

rational homotopy theory in nLab

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

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