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# Calculus of Fractions and Homotopy Theory

By Peter Gabriel

Springer-Verlag GmbH Mai 2012, 2012. Taschenbuch. Book Condition: Neu. 236x151x20 mm. Neuware - The main purpose of the present work is to present to the reader a particularly nice category for the study of homotopy, namely the homotopic category (IV). This category is, in fact, - according to Chapter VII and a well-known theorem of J. H. C. WHITEHEAD - equivalent to the category of CW-complexes modulo homotopy, i.e. the category whose objects are spaces of the homotopy type of a CW-complex and whose morphisms are homotopy classes of continuous mappings between such spaces. It is also equivalent (I, 1.3) to a category of fractions of the category of topological spaces modulo homotopy, and to the category of Kan complexes modulo homotopy (IV). In order to define our homotopic category, it appears useful to follow as closely as possible methods which have proved efficacious in homological algebra. Our category is thus the 'topological' analogue of the derived category of an abelian category (VERDIER). The algebraic machinery upon which this work is essentially based includes the usual grounding in category theory - summarized in the Dictionary - and the theory of categories of fractions which forms the subject of...



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