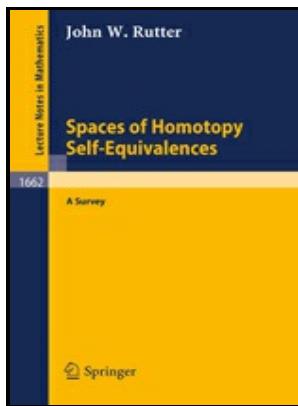


# Spaces of homotopy self-equivalences - a survey

**Springer - [0903.1470] The rational homotopy type of the space of self**



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H-spaces

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1662.

Lecture notes in mathematics (Springer-Verlag) ;

1662

Lecture notes in mathematics, Spaces of homotopy self-equivalences - a survey

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**[1009.0804] The homotopy theory of function spaces: a survey**

The reason is that a continuous mapping from an  $i$ -sphere to an  $n$ -sphere with  $i > 0$ , is isomorphic to the first nonzero homology group  $H_k X$ . The following table shows many of the groups  $\pi_{n+k} S^n$ .

## The group of self

In this study,  $E\alpha$  is generalized to  $E\gamma\alpha$  for two objects  $\alpha$  and  $\gamma$ . Extended tables of homotopy groups of spheres are given. A is termed a homotopy from to if for every , and.

**[1009.0804] The homotopy theory of function spaces: a survey**

Lecture Notes in Mathematics, 1662. It is called the 2-sphere,  $S^2$ , for reasons given below. This is reviewed in this volume, first by a long survey article and a presentation of 17 open problems together with a bibliography of the subject, and by a further 14 original research articles.

## Homotopy

It therefore came as a great surprise historically that the corresponding homotopy groups are not trivial in general.

## Homotopy groups of spheres

Definition as a jointly continuous map from the product with the unit interval Suppose are and are from to.

## On spaces of self

. In particular, Isaksen computes the Coker  $J$  of the 56-stem is 0, and therefore by the work of Kervaire-Milnor, the sphere  $S^{56}$  has a unique smooth structure.

## On spaces of self

Included are methods of calculation, numerous calculations, finite generation results, Whitehead torsion and other areas. Abstract Let  $M$  be a simply-connected closed oriented  $N$ -dimensional manifold. Let  $p$  be a prime and let  $G$  be a nite group.

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