

Model Categories and Their Localizations

Philip S. Hirschhorn



American Mathematical Society

Model Categories And Their Localizations

Luchezar L. Avramov



Model Categories And Their Localizations:

Model Categories and Their Localizations Philip S. Hirschhorn, 2003 The aim of this book is to explain modern homotopy theory in a manner accessible to graduate students yet structured so that experts can skip over numerous linear developments to quickly reach the topics of their interest Homotopy theory arises from choosing a class of maps called weak equivalences and then passing to the homotopy category by localizing with respect to the weak equivalences i.e. by creating a new category in which the weak equivalences are isomorphisms Quillen defined a model category to be a category together with a class of weak equivalences and additional structure useful for describing the homotopy category in terms of the original category This allows you to make constructions analogous to those used to study the homotopy theory of topological spaces A model category has a class of maps called weak equivalences plus two other classes of maps called cofibrations and fibrations Quillen's axioms ensure that the homotopy category exists and that the cofibrations and fibrations have extension and lifting properties similar to those of cofibration and fibration maps of topological spaces During the past several decades the language of model categories has become standard in many areas of algebraic topology and it is increasingly being used in other fields where homotopy theoretic ideas are becoming important including modern algebraic K theory and algebraic geometry All these subjects and more are discussed in the book beginning with the basic definitions and giving complete arguments in order to make the motivations and proofs accessible to the novice The book is intended for graduate students and research mathematicians working in homotopy theory and related areas

Model Categories & Their Localizations
Philip Steven Hirschhorn, 2014-05-21 *Bimonoidal Categories, E_n -Monoidal Categories, and Algebraic K-Theory*
Donald Yau, 2024-10-11 Bimonoidal categories are categorical analogues of rings without additive inverses They have been actively studied in category theory homotopy theory and algebraic K theory since around 1970 There is an abundance of new applications and questions of bimonoidal categories in mathematics and other sciences The three books published by the AMS in the Mathematical Surveys and Monographs series under the title Bimonoidal Categories E_n Monoidal Categories and Algebraic K Theory Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Volume II Braided Bimonoidal Categories with Applications this book and Volume III From Categories to Structured Ring Spectra provide a unified treatment of bimonoidal and higher ring like categories their connection with algebraic K theory and homotopy theory and applications to quantum groups and topological quantum computation With ample background material extensive coverage detailed presentation of both well known and new theorems and a list of open questions this work is a user friendly resource for beginners and experts alike Part 1 of this book studies braided bimonoidal categories with applications to quantum groups and topological quantum computation It is proved that the categories of modules over a braided bialgebra of Fibonacci anyons and of Ising anyons form braided bimonoidal categories Two coherence theorems for braided bimonoidal categories are proved confirming the Blass Gurevich Conjecture The rest of this part discusses braided analogues of Baez's

Conjecture and the monoidal bicategorical matrix construction in Volume I Symmetric Bimonoidal Categories and Monoidal Bicategories Part 2 studies ring and bipermutative categories in the sense of Elmendorf Mandell braided ring categories and E_n monoidal categories which combine n fold monoidal categories with ring categories **Motivic Homotopy Theory**

Bjorn Ian Dundas, Marc Levine, P.A. Østvær, Oliver Röndigs, Vladimir Voevodsky, 2007-07-11 This book is based on lectures given at a summer school on motivic homotopy theory at the Sophus Lie Centre in Nordfjordeid Norway in August 2002 Aimed at graduate students in algebraic topology and algebraic geometry it contains background material from both of these fields as well as the foundations of motivic homotopy theory It will serve as a good introduction as well as a convenient reference for a broad group of mathematicians to this important and fascinating new subject Vladimir Voevodsky is one of the founders of the theory and received the Fields medal for his work and the other authors have all done important work in the subject **Introduction to Stable Homotopy Theory**

David Barnes, Constanze Roitzheim, 2020-03-26 A comprehensive introduction to stable homotopy theory for beginning graduate students from motivating phenomena to current research

Categorical Homotopy Theory Emily Riehl, 2014-05-26 This categorical perspective on homotopy theory helps consolidate and simplify one's understanding of derived functors homotopy limits and colimits and model categories among others

Categorical Decomposition Techniques in Algebraic Topology Gregory Arone, John Hubbuck, Ran Levi, Michael Weiss, 2012-12-06 The book consists of articles at the frontier of current research in Algebraic Topology It presents recent results by top notch experts and is intended primarily for researchers and graduate students working in the field of algebraic topology Included is an important article by Cohen Jones and Yan on the homology of the space of smooth loops on a manifold M endowed with the Chas Sullivan intersection product as well as an article by Goerss Henn and Mahowald on stable homotopy groups of spheres which uses the cutting edge technology of topological modular forms **Combinatorial**

Geometry and Its Algorithmic Applications János Pach, Micha Sharir, 2009 Based on a lecture series given by the authors at a satellite meeting of the 2006 International Congress of Mathematicians and on many articles written by them and their collaborators this volume provides a comprehensive up to date survey of several core areas of combinatorial geometry It describes the beginnings of the subject going back to the nineteenth century if not to Euclid and explains why counting incidences and estimating the combinatorial complexity of various arrangements of geometric objects became the theoretical backbone of computational geometry in the 1980s and 1990s The combinatorial techniques outlined in this book have found applications in many areas of computer science from graph drawing through hidden surface removal and motion planning to frequency allocation in cellular networks Combinatorial Geometry and Its Algorithmic Applications is intended as a source book for professional mathematicians and computer scientists as well as for graduate students interested in combinatorics and geometry Most chapters start with an attractive simply formulated but often difficult and only partially answered mathematical question and describes the most efficient techniques developed for its solution The text includes many

challenging open problems figures and an extensive bibliography

BOOK JACKET **Bousfield Classes and Ohkawa's Theorem** Takeo Ohsawa, Norihiko Minami, 2020-03-18 This volume originated in the workshop held at Nagoya University August 28 30 2015 focusing on the surprising and mysterious Ohkawa's theorem the Bousfield classes in the stable homotopy category SH form a set An inspiring extensive mathematical story can be narrated starting with Ohkawa's theorem evolving naturally with a chain of motivational questions Ohkawa's theorem states that the Bousfield classes of the stable homotopy category SH surprisingly forms a set which is still very mysterious Are there any toy models where analogous Bousfield classes form a set with a clear meaning The fundamental theorem of Hopkins Neeman Thomason and others states that the analogue of the Bousfield classes in the derived category of quasi coherent sheaves $D_{qc} X$ form a set with a clear algebro geometric description However Hopkins was actually motivated not by Ohkawa's theorem but by his own theorem with Smith in the triangulated subcategory SH_c consisting of compact objects in SH Now the following questions naturally occur 1 Having theorems of Ohkawa and Hopkins Smith in SH are there analogues for the Morel Voevodsky A_1 stable homotopy category SH_k which subsumes SH when k is a subfield of \mathbb{C} 2 Was it not natural for Hopkins to have considered $D_{qc} X_c$ instead of $D_{qc} X$ However whereas there is a conceptually simple algebro geometrical interpretation $D_{qc} X_c \simeq D_{perf} X$ it is its close relative $Db_{coh} X$ that traditionally ever since Oka and Cartan has been intensively studied because of its rich geometric and physical information This book contains developments for the rest of the story and much more including the chromatics homotopy theory which the Hopkins Smith theorem is based upon and applications of Lurie's higher algebra all by distinguished contributors

Local Homotopy Theory John F. Jardine, 2015-05-27 This monograph on the homotopy theory of topologized diagrams of spaces and spectra gives an expert account of a subject at the foundation of motivic homotopy theory and the theory of topological modular forms in stable homotopy theory Beginning with an introduction to the homotopy theory of simplicial sets and topos theory the book covers core topics such as the unstable homotopy theory of simplicial presheaves and sheaves localized theories cocycles descent theory non abelian cohomology stacks and local stable homotopy theory A detailed treatment of the formalism of the subject is interwoven with explanations of the motivation development and nuances of ideas and results The coherence of the abstract theory is elucidated through the use of widely applicable tools such as Barr's theorem on Boolean localization model structures on the category of simplicial presheaves on a site and cocycle categories A wealth of concrete examples convey the vitality and importance of the subject in topology number theory algebraic geometry and algebraic K theory Assuming basic knowledge of algebraic geometry and homotopy theory Local Homotopy Theory will appeal to researchers and advanced graduate students seeking to understand and advance the applications of homotopy theory in multiple areas of mathematics and the mathematical sciences

Women in Topology Maria Basterra, Kristine Bauer, Kathryn Hess, Brenda Johnson, 2015-05-21 This volume contains the proceedings of the WIT Women in Topology workshop held from August 18 23 2013 at the Banff International Research Station Banff

Alberta Canada The Women in Topology workshop was devoted primarily to active collaboration by teams of five to seven participants each including senior and junior researchers as well as graduate students This volume contains papers based on the results obtained by team projects in homotopy theory including infinity structures equivariant homotopy theory functor calculus model categories orbispaces and topological Hochschild homology

Equivariant Stable Homotopy Theory and the Kervaire Invariant Problem Michael A. Hill, Michael J. Hopkins, Douglas C. Ravenel, 2021-07-29 The long standing Kervaire invariant problem in homotopy theory arose from geometric and differential topology in the 1960s and was quickly recognised as one of the most important problems in the field In 2009 the authors of this book announced a solution to the problem which was published to wide acclaim in a landmark *Annals of Mathematics* paper The proof is long and involved using many sophisticated tools of modern equivariant stable homotopy theory that are unfamiliar to non experts This book presents the proof together with a full development of all the background material to make it accessible to a graduate student with an elementary algebraic topology knowledge There are explicit examples of constructions used in solving the problem Also featuring a motivating history of the problem and numerous conceptual and expository improvements on the proof this is the definitive account of the resolution of the Kervaire invariant problem

Birational Geometry and Moduli Spaces Elisabetta Colombo, Barbara Fantechi, Paola Frediani, Donatella Iacono, Rita Pardini, 2020-02-25 This volume collects contributions from speakers at the INdAM Workshop Birational Geometry and Moduli Spaces which was held in Rome on 11-15 June 2018 The workshop was devoted to the interplay between birational geometry and moduli spaces and the contributions of the volume reflect the same idea focusing on both these areas and their interaction In particular the book includes both surveys and original papers on irreducible holomorphic symplectic manifolds Severi varieties degenerations of Calabi Yau varieties uniruled threefolds toric Fano threefolds mirror symmetry canonical bundle formula the Lefschetz principle birational transformations and deformations of diagrams of algebras The intention is to disseminate the knowledge of advanced results and key techniques used to solve open problems The book is intended for all advanced graduate students and researchers interested in the new research frontiers of birational geometry and moduli spaces

Simplicial and Dendroidal Homotopy Theory Gijs Heuts, Ieke Moerdijk, 2022-08-02 This open access book offers a self contained introduction to the homotopy theory of simplicial and dendroidal sets and spaces These are essential for the study of categories operads and algebraic structure up to coherent homotopy The dendroidal theory combines the combinatorics of trees with the theory of Quillen model categories Dendroidal sets are a natural generalization of simplicial sets from the point of view of operads In this book the simplicial approach to higher category theory is generalized to a dendroidal approach to higher operad theory This dendroidal theory of higher operads is carefully developed in this book The book also provides an original account of the more established simplicial approach to infinity categories which is developed in parallel to the dendroidal theory to emphasize the similarities and differences

Simplicial and Dendroidal Homotopy Theory is a complete introduction carefully

written with the beginning researcher in mind and ideally suited for seminars and courses It can also be used as a standalone introduction to simplicial homotopy theory and to the theory of infinity categories or a standalone introduction to the theory of Quillen model categories and Bousfield localization

Algebraic Topology Nils Baas, Eric Friedlander, Björn Jahren, Paul Arne Østvær, 2009-08-05 The 2007 Abel Symposium took place at the University of Oslo in August 2007 The goal of the symposium was to bring together mathematicians whose research efforts have led to recent advances in algebraic geometry algebraic K theory algebraic topology and mathematical physics A common theme of this symposium was the development of new perspectives and new constructions with a categorical flavor As the lectures at the symposium and the papers of this volume demonstrate these perspectives and constructions have enabled a broadening of vistas a synergy between once differentiated subjects and solutions to mathematical problems both old and new

Parametrized Homotopy Theory J. Peter May, Johann Sigurdsson, 2006 This book develops rigorous foundations for parametrized homotopy theory which is the algebraic topology of spaces and spectra that are continuously parametrized by the points of a base space It also begins the systematic study of parametrized homology and cohomology theories The parametrized world provides the natural home for many classical notions and results such as orientation theory the Thom isomorphism Atiyah and Poincare duality transfer maps the Adams and Wirthmuller isomorphisms and the Serre and Eilenberg Moore spectral sequences But in addition to providing a clearer conceptual outlook on these classical notions it also provides powerful methods to study new phenomena such as twisted K theory and to make new constructions such as iterated Thom spectra Duality theory in the parametrized setting is particularly illuminating and comes in two flavors One allows the construction and analysis of transfer maps and a quite different one relates parametrized homology to parametrized cohomology The latter is based formally on a new theory of duality in symmetric bicategories that is of considerable independent interest The text brings together many recent developments in homotopy theory It provides a highly structured theory of parametrized spectra and it extends parametrized homotopy theory to the equivariant setting The theory of topological model categories is given a more thorough treatment than is available in the literature This is used together with an interesting blend of classical methods to resolve basic foundational problems that have no nonparametrized counterparts

Topological Modular Forms Christopher L. Douglas, John Francis, André G. Henriques, Michael A. Hill, 2014-12-04 The theory of topological modular forms is an intricate blend of classical algebraic modular forms and stable homotopy groups of spheres The construction of this theory combines an algebro geometric perspective on elliptic curves over finite fields with techniques from algebraic topology particularly stable homotopy theory It has applications to and connections with manifold topology number theory and string theory This book provides a careful accessible introduction to topological modular forms After a brief history and an extended overview of the subject the book proper commences with an exposition of classical aspects of elliptic cohomology including background material on elliptic curves and modular forms a description of the moduli stack of elliptic curves an explanation of the exact

functor theorem for constructing cohomology theories and an exploration of sheaves in stable homotopy theory There follows a treatment of more specialized topics including localization of spectra the deformation theory of formal groups and Goerss Hopkins obstruction theory for multiplicative structures on spectra The book then proceeds to more advanced material including discussions of the string orientation the sheaf of spectra on the moduli stack of elliptic curves the homotopy of topological modular forms and an extensive account of the construction of the spectrum of topological modular forms The book concludes with the three original pioneering and enormously influential manuscripts on the subject by Hopkins Miller and Mahowald

Homotopy Theory: Relations with Algebraic Geometry, Group Cohomology, and Algebraic K-Theory Paul Gregory Goerss, Stewart Priddy, 2004 As part of its series of Emphasis Years in Mathematics Northwestern University hosted an International Conference on Algebraic Topology The purpose of the conference was to develop new connections between homotopy theory and other areas of mathematics This proceedings volume grew out of that event Topics discussed include algebraic geometry cohomology of groups algebraic K theory and \mathbb{A}^1 homotopy theory Among the contributors to the volume were Alejandro Adem Ralph L Cohen Jean Louis Loday and many others The book is suitable for graduate students and research mathematicians interested in homotopy theory and its relationship to other areas of mathematics

Axiomatic, Enriched and Motivic Homotopy Theory John Greenlees, 2012-12-06 The NATO Advanced Study Institute Axiomatic enriched and motivic homotopy theory took place at the Isaac Newton Institute of Mathematical Sciences Cambridge England during 9-20 September 2002 The Directors were J P C Greenlees and I Zhukov the other organizers were P G Goerss F Morel J F Jardine and V P Snaith The title describes the content well and both the event and the contents of the present volume reflect recent remarkable successes in model categories structured ring spectra and homotopy theory of algebraic geometry The ASI took the form of a series of 15 minicourses and a few extra lectures and was designed to provide background and to bring the participants up to date with developments The present volume is based on a number of the lectures given during the workshop The ASI was the opening workshop of the four month programme New Contexts for Stable Homotopy Theory which explored several themes in greater depth I am grateful to the Isaac Newton Institute for providing such an ideal venue the NATO Science Committee for their funding and to all the speakers at the conference whether or not they were able to contribute to the present volume All contributions were refereed and I thank the authors and referees for their efforts to fit in with the tight schedule Finally I would like to thank my coorganizers and all the staff at the Institute for making the ASI run so smoothly J P C GREENLEES

Interactions between Homotopy Theory and Algebra Luchezar L. Avramov, 2007 This book is based on talks presented at the Summer School on Interactions between Homotopy theory and Algebra held at the University of Chicago in the summer of 2004 The goal of this book is to create a resource for background and for current directions of research related to deep connections between homotopy theory and algebra including algebraic geometry commutative algebra and representation theory The articles in this book are

aimed at the audience of beginning researchers with varied mathematical backgrounds and have been written with both the quality of exposition and the accessibility to novices in mind

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