Mathematics Form And Function By Saunders Maclane

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saunders mac lane was an extraordinary mathematician a dedicated teacher and a good citizen who cared deeply about the values of science and education in his autobiography he gives us a glimpse of his life and times mixing the highly personal with professional observations his recollections bring to life a century of extraordinary accomplis

covering a period up to 1971 this selection of saunders mac lane s most distinguished papers takes the reader on a journey through the most important milestones of the mathematical world in the twentieth century mac lane was an extraordinary

mathematician and a dedicated teacher who cared earnestly about the values of science and education his life spanned nearly a century of mathematical progress in his earlier years he participated in the exciting developments in göttingen he studied under david hilbert hermann weyl and paul bernays later he contributed to the more abstract and general mathematical viewpoints which emerged in the twentieth century perhaps the most outstanding accomplishment during his long and extraordinary career was the development of the concept and theory of categories together with samuel eilenberg which has broad applications in different areas in particular in topology and the foundations of mathematics

in presenting this treatment of homological algebra it is a pleasure to acknowledge the help and encouragement which i have had from all sides homological algebra arose from many sources in algebra and topology decisive examples came from the study of group extensions and their factor sets a subject i learned in joint work with otto schil ling a further development of homological ideas with a view to their topological applications came in my long collaboration with samuel ellenberg to both collaborators especial thanks for many years the air force office of scientific research supported my research projects on various subjects now summarized here it is a pleasure to acknowledge their lively understanding of basic science both reinhold baer and josef schmid read and commented on my entire manuscript their advice has led to many improvements anders kock and jacques riguet have read the entire galley proof and caught many slips and obscurities among the others whose sug gestions have served me well i note frank adams louis auslander wilfred cockcroft albrecht dold geoffrey horrocks fried rich kasch johann leicht arunas liulevicius john moore die ter puppe joseph yao and a number of my current students at the university of chicago not to m ntion the auditors of my lectures at chicago heidelberg bonn frankfurt and aarhus my wife dorothy has cheerfully typed more versions of more chapters than she would like to count messrs

includes entries for maps and atlases

categories for the working mathematician provides an array of general ideas useful in a wide variety of fields starting from the foundations this book illuminates the concepts of category functor natural transformation and duality the book then turns to adjoint functors which provide a description of universal constructions an analysis of the representations of functors by sets of morphisms and a means of manipulating direct and inverse limits these categorical concepts are extensively illustrated in the remaining chapters which include many applications of the basic existence theorem for adjoint functors the categories of algebraic systems are constructed from certain adjoint like data and characterized by beck s theorem after considering a variety of applications the book continues with the construction and exploitation of kan extensions this second edition includes a number

of revisions and additions including two new chapters on topics of active interest one is onsymmetric monoidal categories and braided monoidal categories and the coherence theorems for them the second describes 2 categories and the higher dimensional categories which have recently come into prominence the bibliography has also been expanded to cover some of the many other recent advances concerning categories

this book presents scenes from the 1999 mac lane fest held at the university of coimbra on the occasion of saunders mac lane s upcoming ninetieth birthday jacket flap

biographical account of mathematician richard courant who had been removed by the nazis from his position as director of the internationally famous mathematics institute in göttingen and emigrated to the united states and built another mathematics institute in new york

the proceedings of the national academy of sciences pnas publishes research reports commentaries reviews colloquium papers and actions of the academy pnas is a multidisciplinary journal that covers the biological physical and social sciences

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