1. Record Nr. UNINA9910300257703321

Autore	Jost Jürgen
Titolo	Mathematical Concepts / / by Jürgen Jost
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-20436-X
Edizione	[1st ed. 2015.]
Descrizione fisica	1 online resource (XV, 312 p. 130 illus., 16 illus. in color.)
Disciplina	510.1
Soggetti	Algebraic geometry Category theory (Mathematics) Homological algebra Algebra Convex geometry Discrete geometry Differential geometry Biomathematics Algebraic Geometry Category Theory, Homological Algebra General Algebraic Systems Convex and Discrete Geometry Differential Geometry Mathematical and Computational Biology
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Overview and perspective -- Foundations -- Relations -- Spaces -- What is space? -- Spaces of relations -- Structures -- Categories -- Topoi -- A review of examples.
Sommario/riassunto	The main intention of this book is to describe and develop the conceptual, structural and abstract thinking of mathematics. Specific mathematical structures are used to illustrate the conceptual approach; providing a deeper insight into mutual relationships and abstract common features. These ideas are carefully motivated, explained and illustrated by examples so that many of the more technical proofs can

be omitted. The book can therefore be used: · simply as an overview of the panorama of mathematical structures and the relations between them, to be supplemented by more detailed texts whenever you want to acquire a working knowledge of some structure · by itself as a first introduction to abstract mathematics · together with existing textbooks, to put their results into a more general perspective · to gain a new and hopefully deeper perspective after having studied such textbooks Mathematical Concepts has a broader scope and is less detailed than standard mathematical textbooks so that the reader can readily grasp the essential concepts and ideas for individual needs. It will be suitable for advanced mathematicians, postgraduate students and for scientists from other fields with some background in formal reasoning. .