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Nota di contenuto	Topology: Point-Set and Geometric; CONTENTS; Foreword; Acknowledgments; 1 Introduction: Intuitive Topology; 1.1 Introduction: Intuitive Topology; 2 Background on Sets and Functions; 2.1 Sets; 2.2 Functions; 2.3 Equivalence Relations; 2.4 Induction; 2.5 Cardinal Numbers; 2.6 Groups; 3 Topological Spaces; 3.1 Introduction; 3.2 Definitions and Examples; 3.3 Basics on Open and Closed Sets; 3.4 The Subspace Topology; 3.5 Continuous Functions; 4 More on Open and Closed Sets and Continuous Functions; 4.1 Introduction; 4.2 Basis for a Topology; 4.3 Limit Points; 4.4 Interior, Boundary and Closure 4.5 More on Continuity 5 New Spaces from Old; 5.1 Introduction; 5.2 Product Spaces; 5.3 Infinite Product Spaces (Optional); 5.4 Quotient Spaces; 5.5 Unions and Wedges; 6 Connected Spaces; 6.1 Introduction; 6.2 Definition, Examples and Properties; 6.3 Connectedness in the Real Line; 6.4 Path-connectedness; 6.5 Connectedness of Unions and Finite Products; 6.6 Connectedness of Infinite Products (Optional); 7 Compact Spaces; 7.1 Introduction; 7.2 Definition, Examples and Properties; 7.3 Hausdorff Spaces and Compactness; 7.4 Compactness in the Real Line;

7.5 Compactness of Products

7.6 Finite Intersection Property (Optional)8 Separation Axioms; 8.1 Introduction; 8.2 Definition and Examples; 8.3 Regular and Normal spaces; 8.4 Separation Axioms and Compactness; 9 Metric Spaces; 9.1 Introduction; 9.2 Definition and Examples; 9.3 Properties of Metric Spaces; 9.4 Basics on Sequences; 10 The Classification of Surfaces; 10.1 Introduction; 10.2 Surfaces and Higher-Dimensional Manifolds; 10.3 Connected Sums of Surfaces; 10.4 The Classification Theorem; 10.5 Triangulations of Surfaces; 10.6 Proof of the Classification Theorem; 10.7 Euler Characteristics and Uniqueness  
11 Fundamental Groups and Covering Spaces11.1 Introduction; 11.2 Homotopy of Functions and Paths; 11.3 An Operation on Paths; 11.4 The Fundamental Group; 11.5 Covering Spaces; 11.6 Fundamental Group of the Circle and Related Spaces; 11.7 The Fundamental Groups of Surfaces; References; Index

Sommario/riassunto

The essentials of point-set topology, complete with motivation and numerous examples Topology: Point-Set and Geometric presents an introduction to topology that begins with the axiomatic definition of a topology on a set, rather than starting with metric spaces or the topology of subsets of  $\mathbb{R}^n$ . This approach includes many more examples, allowing students to develop more sophisticated intuition and enabling them to learn how to write precise proofs in a brand-new context, which is an invaluable experience for math majors. Along with the standard point-set topology topics-connected and pa