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Nota di contenuto	Foreword; Preface; Contents; 1. Basic Framework; 1.1 Preliminaries; 1.2 Metric Space; 1.3 Gap Functional and Closure of a Set; 1.4 Limit of a Sequence; 1.5 Continuity; 1.6 Open and Closed Sets; 1.7 Metric and Fine Proximities; 1.8 Metric Nearness; 1.9 Compactness; 1.10 Lindelof Spaces and Characterisations of Compactness; 1.11 Completeness and Total Boundedness; 1.12 Connectedness; 1.13 Chainable Metric Spaces; 1.14 UC Spaces; 1.15 Function Spaces; 1.16 Completion; 1.17 Hausdorff Metric Topology; 1.18 First Countable, Second Countable and Separable Spaces 1.19 Dense Subspaces and Taimanov's Theorem1.20 Application: Proximal Neighbourhoods in Cell Biology; 1.21 Problems; 2. What is Topology?; 2.1 Topology; 2.2 Examples; 2.3 Closed and Open Sets; 2.4 Closure and Interior; 2.5 Connectedness; 2.6 Subspace; 2.7 Bases and Subbases; 2.8 More Examples; 2.9 First Countable, Second Countable and Lindelof; 2.10 Application: Topology of Digital Images; 2.10.1 Topological Structures in Digital Images; 2.10.2 Visual Sets and Metric Topology; 2.10.3 Descriptively Remote Sets and Descriptively Near Sets; 2.11 Problems; 3. Symmetric Proximity; 3.1 Proximities

3.2 Proximal Neighbourhood3.3 Application: EF-Proximity in Visual Merchandising; 3.4 Problems; 4. Continuity and Proximal Continuity; 4.1 Continuous Functions; 4.2 Continuous Invariants; 4.3 Application: Descriptive EF-Proximity in NLO Microscopy; 4.3.1 Descriptive L-Proximity and EF-Proximity; 4.3.2 Descriptive EF Proximity in Microscope Images; 4.4 Problems; 5. Separation Axioms; 5.1 Discovery of the Separation Axioms; 5.2 Functional Separation; 5.3 Observations about EF-Proximity; 5.4 Application: Distinct Points in Hausdor. Raster Spaces; 5.4.1 Descriptive Proximity
5.4.2 Descriptive Hausdorff Space5.5 Problems; 6. Uniform Spaces, Filters and Nets; 6.1 Uniformity via Pseudometrics; 6.2 Filters and Ultrafilters; 6.3 Ultrafilters; 6.4 Nets (Moore-Smith Convergence); 6.5 Equivalence of Nets and Filters; 6.6 Application: Proximal Neighbourhoods in Camouflage Neighbourhood Filters; 6.7 Problems; 7. Compactness and Higher Separation Axioms; 7.1 Compactness: Net and Filter Views; 7.2 Compact Subsets; 7.3 Compactness of a Hausdorff Space; 7.4 Local Compactness; 7.5 Generalisations of Compactness; 7.6 Application: Compact Spaces in Forgery Detection
7.6.1 Basic Approach in Detecting Forged Handwriting7.6.2 Roundness and Gradient Direction in Defining Descriptive Point Clusters; 7.7 Problems; 8. Initial and Final Structures, Embedding; 8.1 Initial Structures; 8.2 Embedding; 8.3 Final Structures; 8.4 Application: Quotient Topology in Image Analysis; 8.5 Problems; 9. Grills, Clusters, Bunches and Proximal Wallman Compactification; 9.1 Grills, Clusters and Bunches; 9.2 Grills; 9.3 Clans; 9.4 Bunches; 9.5 Clusters; 9.6 Proximal Wallman Compactification; 9.7 Examples of Compactifications; 9.8 Application: Grills in Pattern Recognition
9.9 Problems

Sommario/riassunto

The principal aim of this book is to introduce topology and its many applications viewed within a framework that includes a consideration of compactness, completeness, continuity, filters, function spaces, grills, clusters and bunches, hyperspace topologies, initial and final structures, metric spaces, metrization, nets, proximal continuity, proximity spaces, separation axioms, and uniform spaces.This book provides a complete framework for the study of topology with a variety of applications in science and engineering that include camouflage filters, classification, digital image processing, f

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Sommario/riassunto	It's busy on the farm as tractor ploughs the fields and lifts up the hay bales, while combine harvester gathers corn and watch out for the cheeky water sprayer!Dive into the world of tractors and farm vehicles with this fantastic picture book brimming with busy bright photos, accessible read out loud text and playful rhymes.These books offer a unique combination of photographic realism and story telling, perfect for children and adults to share and explore together. The books also feature an info-vocab page so the eager reader can enjoy learning and naming the vehicle parts.