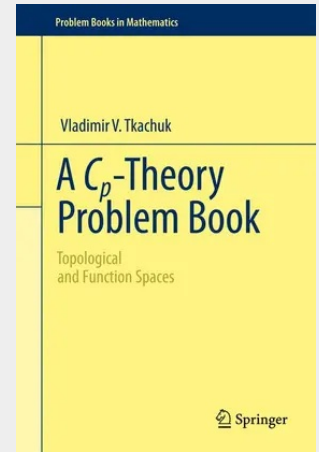


A C_p -Theory Problem Book

Topological and Function Spaces

The theory of function spaces endowed with the topology of point wise convergence, or C_p -theory, exists at the intersection of three important areas of mathematics: topological algebra, functional analysis, and general topology. C_p -theory has an important role in the classification and unification of heterogeneous results from each of these areas of research. Through over 500 carefully selected problems and exercises, this volume provides a self-contained introduction to C_p -theory and general topology. By systematically introducing each of the major topics in C_p -theory, this volume is designed to bring a dedicated reader from basic topological principles to the frontiers of modern research. Key features include: - A unique problem-based introduction to the theory of function spaces. - Detailed solutions to each of the presented problems and exercises. - A comprehensive bibliography reflecting the state-of-the-art in modern C_p -theory. - Numerous open problems and directions for further research. This volume can be used as a textbook for courses in both C_p -theory and general topology as well as a reference guide for specialists studying C_p -theory and related topics. This book also provides numerous topics for PhD specialization as well as a large variety of material suitable for graduate research.

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