A Cp-Theory Problem Book: Functional Equivalencies (Problem Books in Mathematics)

Vladimir V. Tkachuk

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This fourth volume in Vladimir Tkachuk's series on *Cp*-theory gives reasonably complete coverage of the theory of functional equivalencies through 500 carefully selected problems and exercises. By systematically introducing each of the major topics of *Cp*-theory, the book is intended to bring a dedicated reader from basic topological principles to the frontiers of modern research. The book presents complete and up-to-date information on the preservation of topological properties by homeomorphisms of function spaces. An exhaustive theory of *t*-equivalent, *u*-equivalent and *l*-equivalent spaces is developed from scratch. The reader will also find introductions to the theory of uniform spaces, the theory of locally convex spaces, as well as the theory of inverse systems and dimension theory. Moreover, the inclusion of Kolmogorov's solution of Hilbert's Problem 13 is included as it is needed for the presentation of the theory of *l*-equivalent spaces. This volume contains the most important classical results on functional equivalencies, in particular, Gul'ko and Khmyleva's example of non-preservation of compactness by *t*-equivalence, Okunev's method of constructing *l*-equivalent spaces and the theorem of Marciszewski and Pelant on *u*-invariance of absolute Borel sets.

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