

Preface

Continuity theory has long been studied in the setting of topological spaces. In 1966 an enrichment of this setting was discovered: one that has power spaces. Researchers working in this expanded setting have produced remarkable results, not obtainable in the old setting. Until now their impressive work has appeared only in research-oriented publications. Students generally remain unaware that it even exists.

This book makes this evolving enriched continuity theory accessible to students as soon as they are ready to advance beyond metric spaces. Topological theory is fully embedded in the enriched version. So this book can be a substitute for introductory books on classical general topology. It also provides a foundation for enriched functional analysis, into which classical functional analysis is fully embedded.

The overview of Chap. 1 elaborates on the above remarks. It outlines what lies ahead and indicates how continuity theory becomes strengthened by the enrichment.

I am grateful to Carleton University for a congenial work environment over several decades and to the National Science and Engineering Research Council of Canada for the research funding.

louisdnel@cunet.carleton.ca
January 2016

Louis Nel



<http://www.springer.com/978-3-319-31158-6>

Continuity Theory

Nel, L.

2016, XIX, 460 p. 110 illus., Hardcover

ISBN: 978-3-319-31158-6