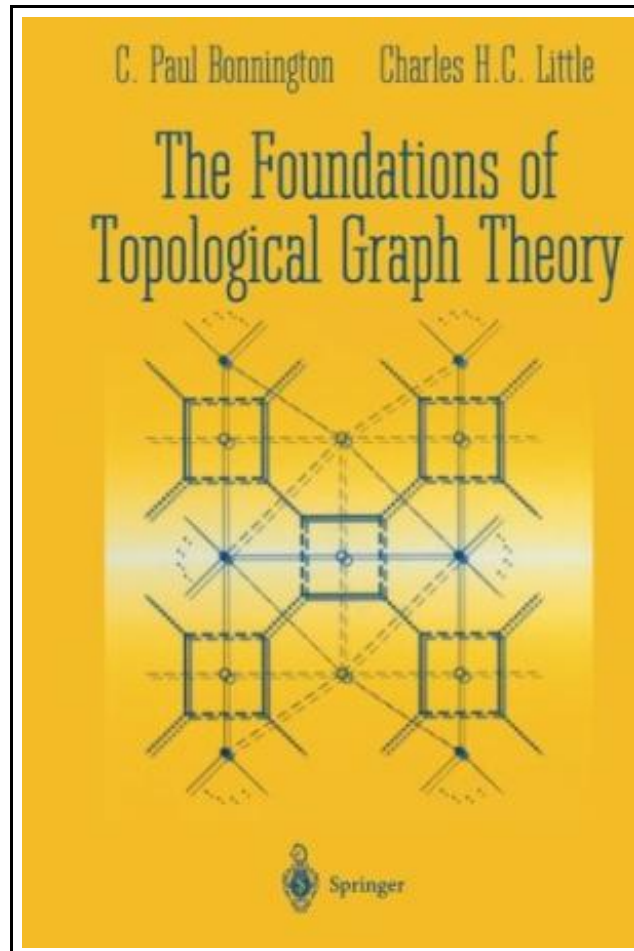# The Foundations of Topological Graph Theory (Paperback)

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Reviews

Basically no words and phrases to describe. It is really simplified but unexpected situations in the fifty percent of your book. I am delighted to let you know that here is the very best publication i have got go through within my very own lifestyle and might be he greatest publication for actually.
(Watson Kohler)

THE FOUNDATIONS OF TOPOLOGICAL GRAPH THEORY (PAPERBACK)

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Springer-Verlag New York Inc., United States, 2011. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book. This is not a traditional work on topological graph theory. No current graph or voltage graph adorns its pages. Its readers will not compute the genus (orientable or non-orientable) of a single non-planar graph. Their muscles will not flex under the strain of lifting walks from base graphs to derived graphs. What is it, then? It is an attempt to place topological graph theory on a purely combinatorial yet rigorous footing. The vehicle chosen for this purpose is the con- cept of a 3-graph, which is a combinatorial generalisation of an imbedding. These properly edge-coloured cubic graphs are used to classify surfaces, to generalise the Jordan curve theorem, and to prove Mac Lane s characterisation of planar graphs. Thus they playa central role in this book, but it is not being suggested that they are necessarily the most effective tool in areas of topological graph theory not dealt with in this volume. Fruitful though 3-graphs have been for our investigations, other jewels must be examined with a different lens. The sole requirement for understanding the logical development in this book is some elementary knowledge of vector spaces over the field Z2 of residue classes modulo 2. Groups are occasionally mentioned, but no expertise in group theory is required. The treatment will be appreciated best, however, by readers acquainted with topology. A modicum of topology is required in order to comprehend much of the motivation we supply for some of the concepts introduced. Softcover reprint of the original 1st ed. 1995.

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