



## Variable Dimension Complexes, Part II: An Unified Approach to Some Combinatorial Lemmas in Topology (Classic Reprint) (Paperback)

By Robert M Freund

Forgotten Books, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book \*\*\*\*\* Print on Demand \*\*\*\*\*.Excerpt from Variable Dimension Complexes, Part II: An Unified Approach to Some Combinatorial Lemmas in Topology Part II of this study uses the path-following theory of labelled V-complexes developed in Part I to provide constructive algorithmic proofs of a variety of combinatorial lemmas in topology. We demonstrate two new dual lemmas on the n-dimensional cube, and use a Generalized Sperner Lemma to prove a generalization of the Knaster-Kuratowski-Mazurkiewicz Covering Lemma on the simplex. We also show that Tucker's Lemma can be derived directly from the Borsuk-Ulam Theorem. We report the interrelationships between these results, Brouwer's Fixed point Theorem and the existence of stationary points on the simplex. About the Publisher Forgotten Books publishes hundreds of thousands of rare and classic books. Find more at This book is a reproduction of an important historical work. Forgotten Books uses state-of-the-art technology to digitally reconstruct the work, preserving the original format whilst repairing imperfections present in the aged copy. In rare cases, an imperfection in the original, such as a blemish or missing page, may be replicated in...



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