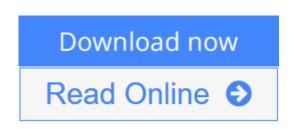# Differential Topology (Cambridge Studies in Advanced Mathematics)

By C. T. C. Wall

Differential Topology (Cambridge Studies in Advanced Mathematics) By C. T. C. Wall

Exploring the full scope of differential topology, this comprehensive account of geometric techniques for studying the topology of smooth manifolds offers a wide perspective on the field. Building up from first principles, concepts of manifolds are introduced, supplemented by thorough appendices giving background on topology and homotopy theory. Deep results are then developed from these foundations through in-depth treatments of the notions of general position and transversality, proper actions of Lie groups, handles (up to the h-cobordism theorem), immersions and embeddings, concluding with the surgery procedure and cobordism theory. Fully illustrated and rigorous in its approach, little prior knowledge is assumed, and yet growing complexity is instilled throughout. This structure gives advanced students and researchers an accessible route into the wide-ranging field of differential topology.

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'This monograph by the famous topologist C. T. C. Wall is based on his mimeographed notes from the 1960s. These notes are amended and supplemented with some new material, but they retain the spirit of the time when dfferential topology was still new and there were no books on the subject. This makes for a comprehensive yet highly readable introduction to the subject which has the right balance of intuition and rigor and which does not shy away from explaining 'well-known' facts.' Nikolai N. Saveliev, Mathematical Reviews

About the Author
C. T. C. Wall is Emeritus Professor in the Division of Pure Mathematics at the University of Liverpool. During his career he has held positions at the University of Oxford and the University of Cambridge and has been invited as a major speaker to numerous conferences in Europe, the USA and South America. He was elected a Fellow of the Royal Society in 1969.

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