NPTEL Video Course - Mathematics - NOC:Introduction to Algebraic Topology - Part II

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Co-ordinating Institute - IIT - Bombay

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Lecture 30 - Excision
Lecture 31 - Examples of Excision-Mayer Vietoris
Lecture 32 - Applications
Lecture 33 - Applications (Continued...)
Lecture 34 - The Singular Simplicial Homology
Lecture 35 - Simplicial Homology
Lecture 36 - Simplicial Homology (Continued...)
Lecture 37 - CW-Homology and Cellular Singular Homology
Lecture 38 - Construction of CW-chain complex
Lecture 39 - CW structure and CW homology of Lens Spaces
Lecture 40 - Assorted Topics
Lecture 41 - Some Applications of Homology
Lecture 42 - Applications of LFT
Lecture 43 - Jordan-Brouwer
Lecture 44 - Proof of Lemmas
Lecture 45 - Relation between ?1 and H1
Lecture 46 - All Postponed Proofs
Lecture 47 - Proofs (Continued...)
Lecture 48 - Definitions and Examples
Lecture 49 - Paracompactness
Lecture 50 - Manifolds with Boundary
Lecture 51 - Embeddings and Homotopical Aspects
Lecture 52 - Homotopical Aspects (Continued...)
Lecture 53 - Classification of 1-manifolds
Lecture 54 - Classification of 1-manifolds (Continued...)
Lecture 55 - Triangulation of Manifolds
Lecture 56 - Pseudo-Manifolds
Lecture 57 - One result due to PoincaÅ e and another due to Munkres
Lecture 58 - Some General Remarks
Lecture 59 - Classification of Compact Surface
Lecture 60 - Final Reduction-Completion of the Proof
Lecture 61 - Proof of Part B
Lecture 62 - Orientability

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