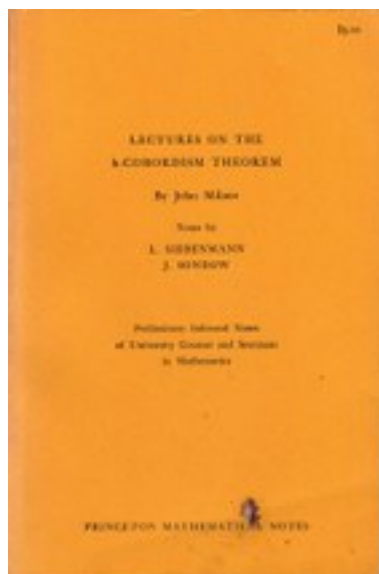


# Lectures on the H-Cobordism Theorem



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著者:John Milnor

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Milnor's "Lectures on the h-cobordism theorem" consists of a proof and applications of the h-cobordism theorem, an important technical result that, among other things, leads immediately to a proof of the Poincare conjecture for smooth manifolds of dimension  $\geq 5$ . The theorem was originally proved by Smale in 1962 (part of the basis for his Fields Medal) using handlebody techniques, but in this book Milnor presents a (partially) different proof using Morse theoretic lemmas due to Morse and Barden. Along the way, a number of theorems and techniques in differential topology are used or derived (including the Whitney trick, finger moves, bicollarings, surgery, extensions of embeddings and isotopies, smooth structures on unions, Poincare duality), which makes this valuable as much for the methods as for the final result. Definitely it is one of the best books for learning how to actually prove things in topology, mixing in Morse theory, Riemannian geometry, and algebraic topology, too.

作者介绍:

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标签

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评论

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Morse理论版本，拓扑部分比 Morse理论 完整。维数限制在引理6.13正交群和引理7.7 Stiefel流形

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内容完整而且自洽。细节很充分，有些内容如果熟悉其实可以看得很快。只需要基本的微分流形奇异同调（和黎曼几何）知识就可以读下来。但是为什么不重新排版啊？老式打字机排版看着太难受了！

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