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Well, my claim is that Lee's Introduction to Smooth Manifolds is very similar to Rotman's book in the hugely beneficial effect it exercises: I have over recent years had (and certainly still have) occasion to work with manifolds of different flavors, and I am ecstatic to have Lee's book in my possession.

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Introduction to Smooth Manifolds. John M. Lee. Springer Science & Business Media, Mar 9, 2013 - Mathematics - 631 pages. 1 Review. Manifolds are everywhere. These generalizations of curves and...

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(1) U is a topological n -manifold with boundary, and the atlas consisting of all smooth charts (V, φ) for M such that $V \cap U$ defines a smooth structure on U . With this topology and smooth structure, U is called an open submanifold with boundary.

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