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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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(1) U is a topological n -manifold with boundary, and the atlas consisting of all smooth charts (V, ') for M such that V ✓ 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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