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References [1] John M. Lee. Introduction to smooth manifolds, volume 218 of Graduate Texts in Mathematics. Springer-Verlag, New York, 2003. [Filename: notes-2012.pdf] - Read File Online - Report Abuse

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Modify equation (6.13) as follows:  $G^*df = d(f \circ G)$  if  $f$  is smooth; (6.13)

- Page 137, statement of Proposition 6.13: Replace the statement by “Suppose  $G: M \rightarrow N$  is smooth, and let  $\omega$  be a covector field on  $N$ . Then  $G^*\omega$  is a (continuous) covector field on  $M$ . If  $\omega$  is smooth, then so is  $G^*\omega$ .”.

**Corrections to  
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Conversely, if  $A_1 \cup A_2$  is a smooth atlas then the smooth structures determined by  $A_1$  and  $A_2$  both contain  $A_1 \cup A_2$ . But there is exactly one smooth structure containing  $A_1 \cup A_2$ , so  $A_1$  and  $A_2$  determine the same smooth structure.

☐ Theorem 2.

[Exercise 1.44] Let  $M$  be a smooth  $n$ -

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manifold with boundary  
and let  $U$  be an open  
subset of  $M$  .

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2 1. Smooth Manifolds

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want to call a curve "smooth" if it has a tangent line that varies continuously from point to point, and similarly a "smooth surface" should be one that has a tangent plane that varies continuously from point to point. But for more sophisticated applications, it is an undue restriction to require

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Prerequisites: Algebra,  
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algebraic topology.

Great writing as usual,  
with plenty of  
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appropriate. Chapters  
6 (Sard's Theorem) and  
9 (Integral Curves ...

## **Mathematics - wj32**

Math 7350 Selected  
HW solutions Page 2 of  
30 HW 1, #2. (Lee,  
Problem 1-6). Distinct  
smooth structures Let  
 $M$  be a nonempty  
topological manifold of  
dimension  $n \geq 1$ . If  $M$  has  
a smooth structure,  
show that it has  
uncountably many  
distinct ones. [Hint: rst

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show that for any  $s > 0$ ,  
 $\int_{\mathbb{R}^n} f(x) dx = \int_{\mathbb{R}^n} f(x) dx$

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Theorem 1. [Exercise  
1.18] Let  $M$  be a  
topological

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structure if and only if  
their union is a smooth  
atlas. Proof. Suppose

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A1 and A2 are two smooth atlases for  $M$  that determine the same smooth structure.

A. Solution Introduction to Smooth Manifolds - Variedades Diferen The title of this book is not 'Differential Geometry,' but 'Introduction to Smooth Manifolds;' a title I think is very appropriate.

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