

**DIFFERENTIAL GEOMETRY AND TOPOLOGY: WITH A VIEW
TO DYNAMICAL SYSTEMS**
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- p. 3 L. 4:** “ $\pi < \theta < \pi/2$ ” should be “ $\pi < \theta < 3\pi/2$ ”.
- p. 14 L. 4:** “though” should be “thought”.
- p. 21 L. 5 & 6:** “ $(\phi \circ c^1)'(0) = (\phi \circ c^2)'(0)$ ” should be “ $(\phi^{-1} \circ c^1)'(0) = (\phi^{-1} \circ c^2)'(0)$ ”, and “ $(\bar{\phi} \circ c^1)'(0) = (\bar{\phi} \circ c^2)'(0)$ ” should be “ $(\bar{\phi}^{-1} \circ c^1)'(0) = (\bar{\phi}^{-1} \circ c^2)'(0)$ ”.
- p. 28 Definition 1.6.2:** Should be “Let $C^\infty(M)$ be the set of all C^∞ functions from M to \mathbb{R} . A derivation at p is a linear map $D : C^\infty(M) \rightarrow \mathbb{R}$ satisfying

$$D(fg) = f(p)D(g) + g(p)D(f)$$

for all $f, g \in C^\infty(M)$.”

- p. 29 L. -8:** “ $\int_0^1 \frac{\partial(f \circ \phi)}{\partial x_i}(tx)dt$ ” should be “ $\int_0^1 \frac{\partial}{\partial t} [(f \circ \phi)(tx)] dt$ ”.
- p. 30 L. 3** It should be an equal sign = at the beginning of the line.
- p. 31 L. 18:** “ $T_p M$ ” should be “ $T_{f(p)} N$ ”.
- p. 32 L. -12:** “ $q \in M$ ” should be “ $p \in M$ ”.
- p. 109 L. -1 & -2:** “hence the speed can be expressed as” should be “hence the square of the speed can be expressed as”, and “ $\left\| \frac{dc}{dt} \right\|$ ” should be “ $\left\| \frac{dc}{dt} \right\|^2$ ”.
- p. 115 L. 4 & 9:** there are extra brackets “)” next to $\cos x_2$ and $\sin x_2$, respectively.
- p. 170 L. 11:** there is an extra blank space after “(2004)”.
- p. 319 L. 11:** “ $2\pi - \sum_1^3 \angle A_i$ ” should be “ $2\pi - \sum_1^3 (\pi - \angle A_i)$ ”.
- p. 322 Example 7.7.6:** Note that the area $\text{Area}(\triangle ABC)$ is not the Euclidean area, but the area computed with respect to the hyperbolic metric, i.e.,

$$\text{Area}(\triangle ABC) = \iint_{\triangle ABC} \sqrt{EG - F^2} dx dy = \iint_{\triangle ABC} \frac{1}{y^2} dx dy.$$

- p. 322 Figure 9.2.6:** the figure should be

