Errata to Elements of Differential Topology

International Edition

Page No.	Line No.	How it appears	How it should be
9	11a	... for $r \geq 1$. It...	...for some $r \geq 1$. It ...
10	10b	... Then g_x ...	Then for $(x, y) \neq (0, 0)$, g_x...
12	13b	...$= \alpha \mathrm{div}\, f + \alpha \cdot \nabla f$,...	...$= \alpha \mathrm{div}\, f + (\nabla \alpha) \cdot f$,...
14	11b	k-times differentiable.	*k-times differentiable.*
16	2a	... functions of f are ...	functions of σ are ...
17	2a	... for $X = Id_n$, ...	...for $X = I_n$, ...
18	17a	... first order linear differential	...first order differential
18	28a	...for $m > n > \mathfrak{n}_0$	...for $m > n > n_0$
19	8a	...Then $\hat{f} \in (E, \mathbb{R}^n)$...	...Then $\hat{f} \in \mathcal{C}^1(R, \mathbb{R}^n)$...
21	17a	...We have,	...We have:
21	18a	...for every $v \in \mathbb{R}^m$,...	...for every $\mathbf{v} \in \mathbb{R}^m$,...
22	24a	...$f\phi$...	...$f \circ \phi$...
22	24a	...$= (x_1, \ldots, x_n.)$	...$(x_1, \ldots, x_n)$.
32	5b	...$-\lambda \mathbf{x} \cdot \mathbf{x}$	...$-\lambda(\mathbf{x} \cdot \mathbf{x} - 1)$
34	14a	... on X.	...on X. A map $g : X \to \mathbb{R}^n$ is differentiable if each coordinate function $g_i : X \to \mathbb{R}$ is differentiable.
35	10a	which ... other.	and $f : U \to V$ be a diffeomorphism.
35	15a	(b) Since...here.	(b) Again for each $x \in U$, Df_x is invertible.
41	(12+13)a	..we can...original statement. ...	...properties (i)–(iv) gets verified on largers sets anyway. ...
45	10b	(i) $\frac{x^3 y}{x^2 - y^2}$	$\frac{x^3 y}{x^2 + y^2}$
70	7a	...*front j-face* of ...	...*front j^{th}-face* of ...
71	6b	...and and ...	...and...
77	15b	...choose a chart x...	...choose a chart ϕ...
80	3a	...its own.	...its own. The codimension of Y in X is defined to be $\dim X - \dim Y$.
84		change φ to ϕ in the figure.	
84	16b	$D(f)_0$	$D(f)_x$
88	1b	a definitions.	definitions.
89	11a	...$f(\mathcal{R}_f) \subset Y$, ,...	...$f(\mathcal{R}_f) \subset Y$,...
89	12a	are all open.	are all open. (The last two assertions need f to be proper.)
91	2a	...Steifel...	...Stiefel...
93	4a	$U_i = W_i \cap f^{-1}(V')$,...	$U_i = W_i \cap f^{-1}(V)$,...
99	3b	$S0(n)$	$SO(n)$
106	3a	...identity.	...identity and such that at $p = (2, 0, 0) \in \mathbb{M}$, $\phi(p) = p$ and $d\phi_p$ is orientation reversing.
121	11b	... Let X be a ...	... Let $X \neq \emptyset$ be a ...
123	20	...each point of x has...	...each point x of X has...
147	17	measure.	measure 0.
149	10a	(ii) $\sup \lVert f(x) - g(x) \rVert < \epsilon$.	$\sup \lVert f(x) - g_k(x) \rVert < \epsilon$, on X.
149	15a	$\sup \lVert f(x) - g(x) \rVert < \epsilon$.	$\sup \lVert f(x) - g(x) \rVert \leq \epsilon$.
149	16a	Taking $g_1 = f$,...	Taking $g_0 = f$,...
152	5a	..the Steifel...	... the Stiefel...
152	5a	..the Steifel...	... the Stiefel...
155	12b&5b	...$\alpha : X \to \mathbb{R}^N$...	...$\alpha : N(X) \to \mathbb{R}^N$...
155	2b	...$(y, \mathbf{v}) \in N(M)$...	...$(y, \mathbf{v}) \in N(X)$...
156	2a	...suitable a choice...	...a suitable choice ...
173	11a	... closed subspaces. ...	... compact submanifolds. ...
191	2b	...embeddings. And...	...embeddings (see Definition 5.2.4 and Remark 5.2.1).
191	1b	Schoenfly-type...	Schoenflies-type...
197	15b	...is denote ...	is denoted ...
197	13b	$I(X) := L(ID_X) = \cdots$	$I(X) := L(Id_X) = \cdots$
199	6b	... This phenomenon...	....(This phenomenon...

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200	(6+7)a	DELETE THEM	
200	8a	...by Taylor's' Theorem ...	...by Taylor's Theorem...
203	18a	Reverse the arrows on the circles on the right side in (Vii)	
203	6b	$...1, 1, -1, 1, -1, 1, 2.$	$1, 1, -1, 1, 1, 1, 2.$
203	(6+7)b	DELETE the text 'ARE YOU...index?'	
209	9b	...functions...1925. He...	...function of n independent variables' in Trans. Amer. Math. Soc.(1925) no.3, 345-394. He...
212	2b	$...g \circ \phi...$	$...f \circ \phi...$
213	7a	...map $d\pi_p = \pi...$	...map $D\pi_p = \pi...$
228	9b	$...M_\epsilon.$	$...M_{c-\epsilon}.$
270	11a	$= \lim_{t \to 0} \frac{x_i(t\mathbf{u})}{t}$	$= \lim_{t \to 0} \frac{x_i(t\mathbf{u}) + [t\mathbf{u}, \mathbf{v}](x_i)(e)}{t}$
307	11b	Steifel manifolds	Stiefel manifolds