

ERRATA for Basic Algebraic Topology

Page No.	Line No.	As is	Read as
14	15	$\gamma_1 = \gamma_2 \circ \alpha.$	$\gamma_2 = \gamma_1 \circ \alpha.$
14	-10	$\omega \circ \underline{\omega}$	$\omega * \underline{\omega}$
19	12	... not a retract of \mathbb{D}^2.	...not a retract of \mathbb{D}^2 . (See definition 1.4.3 .)
21	8	$n \geq 2.$	$n \geq 2)$
21	-4	... $n \geq 2.$	... $n \geq 3.$
26	11	(i) Given ...	(i) Give ...
33	5	... line $x = 1.$	... line $x = 0.$
34	27	... $\mathbb{I} \times 0 \cup \{t\} \times \mathbb{I}.$ ♠	... $\mathbb{I} \times 0 \cup \{t\} \times \mathbb{I}.$ Now use Proposition 1.6.1. ♠
35	13	... $j \circ r$	... $j \circ \hat{f}$
36	22	... $\lambda(j, s) = H(j, s), j = 0, 1, t, s...$	...$\lambda_j(s) = H(j, s), j = 0, 1; t, s...$
45	10b	... spaces, T ...	... spaces, $\mathcal{T} : ...$
47	-6	...; $f...$	...; f
48	23,24	...with the ... $\#(C(Y)).$	with $\#(\text{conn}(X)) \neq \#(\text{conn}(Y)).$
49	11	... the following diagram	... the above diagram
51	-8	in a category (if they exist)	(if they exist)
52	3	... $p \in (E, B)...$	...$p \in M(E, B)...$
52	-10	... has initial objects, then ....	... has terminal objects, then ...
73	-15	at $v.$	at $x.$
85	-18	... in (2).	... in (ii).
86	-8	$q(e_2)$	$q(e^2)$
86	-4	e_{2k+2}	e^{2k+2}
96	-17	In Section 2.5, ...	In Section 2.9, ...
105	22	.. to construc a ...	...to construct a...
111	6	... to each $|F|$; it is ...	... to each $|F|$ it is
111	15	... = $\| \sum_i (t_i(v_i - \beta)) \|$	... = $\| \sum_i t_i(v_i - \beta) \|$
114	-9	... proof of given ...	... proof given ...
115	-15	... and and ...	... and ...
116	3	... of of ...	... of ...
118	11	... g does contain the image of g does not contain ...
118	-3	... $K_j = f^{-1}(L_j)$ $K_j = \alpha_j^{-1}(L_j)$...
118	-1	... $\subset K_4 = ...$... $\subset K_4 = ...$

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119	2	and $ \alpha...$...and $ \alpha (x)...$
119	5	Consider the homotopy...	Consider the homotopy H_t :
119	6,7	... it is ...by fit is equal to f .
119	11	$[f(x), |\alpha|]$	$[f(x), |\alpha|(x)]$
119	16,17	Delete these lines	
129	16	... given the covering...	... given covering...
132	-13	...say.	...say.)
132	-12	$H(0, 0)$	$\bar{H}(0, 0)$
132	-9	thatp(	that $p($
132		Replace all \bar{H} with \bar{H}	
133	13	... by Lemma 3.3.3.	... by Lemma 3.3.1.
133	20	$p\#$	$p\#$
137	-8	... $\pi_1(X, x)/\pi_1(\bar{X}, \bar{x})$ is ...	... $\pi_1(X, x)/p\#(\pi_1(\bar{X}, \bar{x}))$ is ...
137	-1	... criterion.	...criterion. ♠
138	-1	... is simialr...	... is similar ...
139	-4	$\mathbf{P}(\mathbf{X}, \mathbf{x}_0)$	$\mathbf{P}(X, x_0)$
139	=1	$P(X, x_0)$	$\mathbf{P}(X, x_0)$
140	19	$p_* : P(\bar{X}, \bar{x}_0) \rightarrow P(X, x_0)$	$p_* : \mathbf{P}(\bar{X}, \bar{x}_0) \rightarrow \mathbf{P}(X, x_0)$
140	22-24	Replace $P($ by $\mathbf{P}($	
141	21	...= $L_g(x)$	...= $L(g)(x)$
141	-11	$\rho(g)(x)$	$\rho(g')(x)$
147	15	... $T \circ \phi_q = (\phi_q)^{q'} \circ T$.	... $T \circ \phi_q = (\phi_{q'})^q \circ T$.
147	-5	... circle.	... circle.)
153	10	$\alpha_i \circ \alpha_{ij} = \alpha_j \alpha_{ji}$	$\alpha \circ \eta_{ij} = \alpha_j \circ \eta_{ji}$
154	10,11	Replace γ' by $\tilde{\gamma}$	
154	-9	...by $s...$...from $s...$
154	-3	...each $i...$...each $j...$
154	-1	... $(g,) \searrow (gg')$, if $g, g \in G_i$ $(g, g') \searrow (gg')$, if $g, g' \in G_i$.

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170	8	A R -module ...	An R -module...
171	-9	... a R -module...	...an R -module...
171	-4 $\text{Coker } f \longrightarrow \text{Coker } f''$... $\text{Coker } f \xrightarrow{\beta'} \text{Coker } f''$
173	7	In the diagram, replace ∂''_{n+1} by ∂''_n	
173	9	$\text{Ker } \partial'_n / \text{Im } \partial_{n+1} = \dots$	$\text{Ker } \partial'_n / \text{Im } \partial'_{n+1} = \dots$
173	-7	In the diagram replace the first β_2 by β_1	
174	-9	... R is PID ...	... R is a PID ...
177		In the diagram, replace all F_j with F^j	
178	15	$F^r \circ F^s = F^{s-1} \circ F^r$	$F^s \circ F^r = F^r \circ F^{s-1}$.
178	19	$(-1)^{r+s} \sigma_{r,s}$	$(-1)^{r+s} \sigma$
179	18,19	$G_* \circ (\eta_0)_* = G_* \circ (\eta_1)_*$.	$G_* \circ (\eta_0)_* = f_*$ and $G_* \circ (\eta_1)_* = g_*$.
179	24	$S_{q+1}((X, A) \times \mathbb{I})$,	$S_{q+1}((X, A) \times \mathbb{I})$,
179	-2	In the labeling of arrows, interchange 0 and \simeq	
180	25-27	Replace ∂ by ∂_1	
181	11	X_i in to ...	X_i into...
183	14	...relative of...	...relative...
186	17	...have more...	...have a more...
186	24	...concerned with...	... concerning...
188	-4	... Theorem 4.2.9. Theorem 4.2.17.

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190	12	$\sigma(v_{i-1})$	$\sigma(\mathbf{e}_{i-1})$
190	-16	...and for all...	...for all...
192	16	<i>is chain...</i>	<i>is a chain...</i>
195	-24	... <i>cellular chain associated ...</i>	... <i>cellular chain complex associated ...</i>
200	-3	... of of ...	... of ...
210	8	... isomorphism.	... isomorphism, ...
210	15	$\oplus H_n(|L| \rightarrow H_n(|K|) \dots$	$\oplus H_n(|L|) \rightarrow H_n(|K|) \dots$
212	21	... is jointed	... is joined
367	8	... end of the chapter.	... end of chapter 12.
404	-8	... $g(\mathbf{e}_0), \dots, g(\mathbf{e}_{k-1})$ ...	... $g(\mathbf{e}_1), \dots, g(\mathbf{e}_k)$...
405	9	... $\frac{O(n)}{O(n-1)}$ ...	... $\frac{O(n)}{Id_1 \times O(n-1)}$...
408	21	where, $\partial([f_n] - [f_n|\mathbb{S}^{n-1}]) \dots$	where, $\partial([f_n]) = [f_n|\mathbb{S}^{n-1}] \dots$
440	-12	... H^{2n-1} ...	... H^{2i-1} ...
440	-10	... H^{4n-1} ...	... H^{4i-1} ...
526	-12	[Higgin- ...]	[Higman- ...]