

CHANGES

Changes : version 44 → 45

- p.24 new Lemma to fill gap in proof (now exercise on p.24)
- p.23 added picture to example $\Delta^n \subseteq \mathbb{R}^{n+1}$
- p.22 at bottom: small comment about reflection in V
- p.21 $\partial_1 \circ \partial_2$ not $\partial_2 \circ \partial_1$
- p.18 clarified 'homeo' in sense of homeomorphism onto the image
- p.17 two places where mention "splits": added comments
- p.16 small comment about $\pi^{-1}(c) = \{b+a\}$
- p.13 quotient complex: small comment about cosets
- p.12 polynomials: small comment $C_n = 0$ for $n < 0$
- p.10 $H^*(\mathbb{R}P^n)$ not $H_*(\mathbb{R}P^n)$
- p.9 comment about $\mathbb{R}P^n$ being also space of lines
- p.8 $H_0(X)$ small comment about path connected pts are homologous
- p.8 N_1 at bottom: why 2-gon homologous to 0 picture
- p.6 2) $F(f)$ not $F(A)$: $\mathbb{Z}\langle A \rangle \rightarrow \mathbb{Z}\langle B \rangle$
- p.1 added Vick's book

Changes : version 45 → 46

- p.14 added curiosity
- p.20 exercise about getting a simplicial cx from a Δ -cx
- p.27 harder exercise added
- p.28 cleaned up proof of "claim"
- p.29 added details to the proof

Changes : version 46 → 47

- p.33 : warning in the second Example (above excision)
- p.33. \tilde{H}_* not H_* in last Example
- p.14 last example ($0 \rightarrow A \rightarrow B \rightarrow 0$)

- P.33 comment in brackets at end: why $\bar{E} \subseteq A^0$
- P.34 last remark about A closed.
- P.41 assume $n \geq 1$ in chapter
- P.42 In blue explained LES in last diagram
- P.42 added Rmk bottom about $H_n(U, U \setminus x) \cong \mathbb{Z}$ ←
- P.43 near " $(1, \dots, 1) \in \mathbb{Z}$ " added blue Rmk referring to
- P.43 first line pf of lemma replaced \tilde{H}_* by H_*
- P.43 added comment why holo maps are orient preserving
- P.44 top X^0 has discrete topology, and D^n are closed discs
- P.44 bottom, "why CW"
- P.46 definition of d explained $(\psi_\alpha)_* [S^{n-1}]$
- P.46 added comment about closure-finite in middle of page
- P.49 compactness argument: added reference to 'closure-finite'
- P.49 last part of proof: reversed order of \cong to make it clearer
- P.54 clarified meaning of "constant function"
- P.54 $n = k + l + 1$ in proof of Thm
- P.57 picture: Σ_2 not T^2

Changes : version 47 \rightarrow 48

- P.60 : technical Rmk about product topology
- P.61 : added Remark
- P.63 : fixed final FACT, nonexaminable label
- P.64 : end: s^* well-defined
- P.69 : added comment top right
- P.69 : fixed proof about $\text{Hom}(T_{n-1}, \mathbb{R})$ being zero
- P.73 : added Rmk
- P.77 : local map definition
- P.79 : explicit example of Poincaré duality from lectures.
- P.80 : comment about "Pf" in simplicial case
- P.81 : added comment $[M] = \sum \pm \gamma_i$ in simplicial case
- P.82 : added "FACT" before last Thm
- P.82 : added Rmk
- P.85 : added Fact