# Errata: Subdivision Surfaces

Found by Zhangjin Huang, if not mentioned otherwise. Italics means: *not yet fully verified*. Thank you all!

- Page 21, line +9: $W\Sigma Dx$ should be $K\Sigma Dx$.
- Page 30, line -5: $[0, 2\sqrt{u}, 0]$ should be $[0, 2\sqrt{u}, u]$.
- Page 31, line 3: $\frac{1}{2}$ is missed in the last term.
- Page 53, line -6: in the proof, $\xi_* \circ \pi$ should be $\xi_* \circ \pi^{-1}$.
- Page 60, line +4: ... the ring $\mathbf{x}^0$ and ...
- Page 62, line +4: ... the first ring $\mathbf{x}^0$ ...
- Page 62, line +5: ... the $m$th ring $\mathbf{x}^{m-1}$ ...
- Page 70: in Fig. 4.7, the tickmarks on the x-axis should be $[0, 1, 2]$.
- Page 73, display above (4.22), rightmost $\lambda$ s, 3 rows, (by Q Chen) $\lambda$ should be $\tilde{\lambda}$
- Page 73, line -9 (Q Chen), subscript should be $r$: $Av_r^0 = \lambda_r v_r^0$
- Page 80, last sentence of Theorem 4.28: (A Myles), fist $\rightarrow$ first
- Page 80, line +14: in Def. 4.27, $A \in \mathbb{R}^{\bar{l} \times \bar{l}}$ should be $A \in \mathbb{R}^{(\bar{l}+1)\times(\bar{l}+1)}$.
- Page 85, Definition 5.4: (A Myles), $\psi := [f_1, f_2] = F[v_1, v_2]$ should be $\psi := [f_1, f_2] = G[v_1, v_2]$.
- Page 88, line +8: $(2n(u_{j+1} - u), 2, j)$ should be $(2n(u_{j+1} - u), 1, j)$.
- Page 92: in Case 3, $\mathcal{A}_3^2$ and $\mathcal{A}_3^1$ *should be exchanged.*
- Page 99, line +9: $\hat{A} = \hat{V}J\hat{V}^{-1}$ should be $\hat{A} = \hat{V}\hat{J}\hat{V}^{-1}$.
- Page 99, line +12: $J$ should be $\hat{J}$
- Page 100, line +12: $\hat{J}_i = \overline{\hat{J}_i}$ should be $\hat{J}_{n-i} = \overline{\hat{J}_i}$.

- Page 106, line +7: ${}^{\times}Df_0(s,t) = {}^{\times}Df_0(t,s)$ should be ${}^{\times}Df_0(s,t) = \overline{{}^{\times}Df_0(t,s)}$.
- Page 106, line +8: ${}^{\times}Df_j(s,t) = {}^{\times}Df_0(s,t)$ should be ${}^{\times}Df_j(s,t) = w_n^{2j} \times {}^{\times}Df_0(s,t)$.
- Page 114, line +2: in the $3 \times 3$ matrix, the (3,3) element $\hat{v}^{13}$ should be $\hat{v}^{11}$.
- Page 117, line +2: in Eq. (6.17), $\hat{\alpha}_i$ should be $\hat{a}_i$.
- Page 128, line -10: in Def 7.2, $\bar{\mathbf{p}}_q^0 := [0, 0, \mathbf{p}_q \cdot \mathbf{n}^c]$.
- Page 130, line +13: ${}^{\times}D\bar{\mathbf{x}}_j$ should be $D\bar{\mathbf{x}}_j$.
- Page 134, line +3: $\mu < l$ should be $\mu < \lambda$.
- Page 139, line +9: for $r^j$, *the matrix should be* $\begin{bmatrix} 0 & 1 \\ 1 & 0 \end{bmatrix}$. $r^j$ should be $r_j$.
- Page 144, line -10: in the first term of $T[p]$, $c_i s^i t^{d-l}$ should be $c_i s^i t^{d-i}$.
- Page 148, line +10: $k/2$ should be $q/2$.
- Page 152, line -8: $m_{\nu,\mu}$ should be $f_{\nu,\mu}$.
- Page 152, line -1: $D_1^l \mathbf{x}^m(1/2, ., j), D_2^l \mathbf{x}^m(., 1/2, j), D_1^l \mathbf{x}^{m+1}(1, ., j), D_2^l \mathbf{x}^{m+1}(., 1, j)$.
- Page 153, line -3: $C_{r,2}^{2,7}$ should be $C_{2,r}^{2,7}$.
- Page 160, line -9: $\check{\mathbf{x}}_k = \check{E}_k \mathbf{P}$.
- Page 163, line +4: $\delta_k^m = (B^m - \check{B}_k^m)\mathbf{Q}' = (B^0 - \check{B}_{k-m}^0)A^m\mathbf{Q}' = \lambda^m(G - \check{G}_{k-m})\mathbf{Q}' = \lambda^m(\psi - \check{\psi}_{k-m})$.
- Page 163, line +12: $||\delta_k||$ should be $||\delta_k^k||$.
- Page 163, line -7: $\bar{\mathbf{x}}$ should be $\bar{\mathbf{x}}_k$.
- Page 164, line +3: $\mathcal{X} = B[v_1, v_2]$.
- Page 167, line +10: $||J^m\mathbf{P}||_\infty$ should be $||J^m\mathbf{P}||_1$.
- Page 168, line +2: $c_F c_J^3$ should be $\bar{c}_F c_J^3$.
- Page 168, line -9: $\lambda_0 = 1$.