Correction to: Euclidean Design Theory

Correction to:

M. Sawa et al., *Euclidean Design Theory*,
JSS Research Series in Statistics,
<https://doi.org/10.1007/978-981-13-8075-4>

In the original version of the book, the following belated corrections have been made.

In the following list, line n means n -th line from the top and line $-n$ means n -th line from the bottom:

Page 4, line -7 : Proof of Proposition 1.1(ii),

$$\left(\sum_{i,j} c_i c_j K_{ij}^{(1)} K_{ij}^{(2)} \right) = \sum_{i,j} c_i c_j \left(\sum_k \lambda_k v_{ki} v_{kj} \right) \sum_{i,j} K_{ij}^{(2)},$$

has been replaced by

$$\left(\sum_{i,j} c_i c_j K_{ij}^{(1)} K_{ij}^{(2)} \right) = \sum_{i,j} c_i c_j \left(\sum_k \lambda_k v_{ki} v_{kj} \right) K_{ij}^{(2)}.$$

Page 21, line 1: “ $\int_{-1}^1 \cdot du/2$ ” has been replaced by “ $\int_0^1 \cdot du$ ”.

The updated versions of these chapters can be found at
https://doi.org/10.1007/978-981-13-8075-4_1
https://doi.org/10.1007/978-981-13-8075-4_2
https://doi.org/10.1007/978-981-13-8075-4_4

Page 80, line -7 has been changed as follows:

$$\frac{1}{(1-u^4)(1-u^6)\cdots(1-u^{2d-2})(1-u^d)} = \begin{cases} 1+2u^4+u^6+3u^8+\mathcal{O}(u^{10}), & \text{if } d=4, \\ 1+u^4+u^5+u^6+2u^8+\mathcal{O}(u^9), & \text{if } d=5, \\ 1+u^4+2u^6+2u^8+\mathcal{O}(u^{10}), & \text{if } d=6, \\ 1+u^4+u^6+u^7+2u^8+\mathcal{O}(u^{10}), & \text{if } d=7, \\ 1+u^4+u^6+3u^8+\mathcal{O}(u^{10}), & \text{if } d=8, \\ 1+u^4+u^6+2u^8+\mathcal{O}(u^{10}), & \text{if } d\geq 9. \end{cases}$$

Page 81, line 7 has been changed as follows:

$$\dim \text{Harm}_8(\mathbb{R}^d)^{D_d} = \begin{cases} 3, & d=4, 8 \\ 2, & d\geq 5, d\neq 8. \end{cases}$$

Page 81, line -10: “ $d\geq 4, d\neq 6$ ” has been replaced by “ $d\geq 4$ ”.

Page 81, line -6: “the following polynomials $f_{8,1}, f_{8,2}, f_{8,3}$, respectively, as” has been replaced by “the following polynomials $f_{8,1}, f_{8,2}, f_{8,3}, f_{8,4}$, respectively, as”.

Page 82, line 1: the following has been included:

For $d=8$

$$f_{8,4} = x_1x_2x_3x_4x_5x_6x_7x_8.$$

Page 82, line -10: “For $d\geq 4, d\neq 6$ ” has been replaced by “For $d\geq 4$ ”.

Page 83, line 5: the following has been included:

(iv) For $d=8$

$$f_{8,4}(v_1) = \cdots = f_{8,4}(v_6) = 0, \quad f_{8,4}(v_7) = -\frac{1}{4096}, \quad f_{8,4}(v_8) = \frac{1}{4096}.$$

Page 99, line 8 has been changed as follows:

$$f_{8,2}(v_{A,s}) = \frac{1}{(A+s)^4} \left\{ A^2s + \frac{(s-1)s}{2} - \frac{6}{d-2} \left(A(s-1)s + \frac{A^2(s-1)s}{2} \right. \right. \\ \left. \left. + \frac{(s-2)(s-1)s}{2} \right) + \frac{9s(-3+4A+s)(s-2)(s-1)}{2(d-3)(d-2)} \right\}.$$

The correction chapters have been updated with these changes.