

## ERRATA:

Imperfect Bifurcation in Structures and Materials —Engineering  
Use of Group-Theoretic Bifurcation Theory, First Edition,  
Springer, 2002  
by Kiyohiro Ikeda and Kazuo Murota

The following corrections should be made on the first edition of the book:

- Page 56, three lines below (2.71): Should read, being equal to the reciprocal of the coefficients in (2.70).

- Page 57, the equation in the second line: Should read,

$$\frac{\partial \widehat{F}}{\partial w} = 2A_{200}w + A_{110}\widetilde{f} + \text{h.o.t.} = \pm(A_{110}^2 - 4A_{200}A_{020})^{1/2}\widetilde{f} + \text{h.o.t.}$$

- Page 157, Eq. (7.6): Should read,

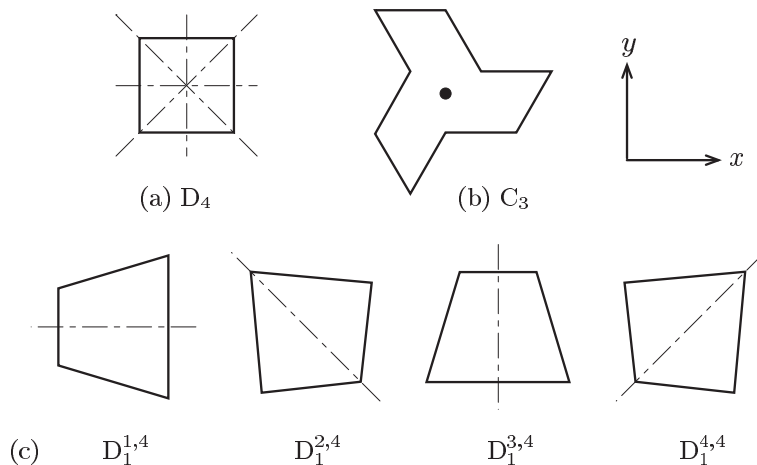
$$T(g)^{-T}F(u, f) = F(T(g)u, f), \quad g \in G. \quad (7.6)$$

- Page 165, Eq. (7.28) and the paragraph thereafter: Should read,

$$T(g)^{-T}\mathbf{F}(\mathbf{u}, f, \mathbf{v}) = \mathbf{F}(T(g)\mathbf{u}, f, S(g)\mathbf{v}), \quad g \in G. \quad (7.28)$$

This looks slightly different from (7.20) in that  $T(g)$  appearing on the left-hand side of (7.20) is replaced by  $T(g)^{-T}$  in (7.28). This difference, however, is not essential, since  $T(g)^{-T}$  and  $T(g)$  are equal for a unitary representation  $T$ . Therefore, (7.28) can be rewritten in the form of (7.20) with a suitable basis change. See also the argument in Remark 7.4.2.

- Page 184, Fig. 8.1: Should look

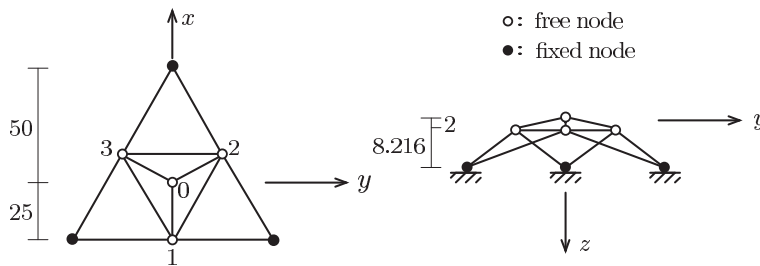


- Page 191, (8.25): Should read,

$$\Sigma(\xi(\alpha_{i+\widehat{n}j})) = \Sigma(\eta(\alpha_{i+\widehat{n}j})) = D_{n/\widehat{n}}^{i^*,n}, \quad i = 1, \dots, \widehat{n}, \quad j = 0, 1, \quad (8.25)$$

where the integer  $i^*$  ( $1 \leq i^* \leq n/\widehat{n}$ ) is determined from  $i$  by  $(i^* - 1)\widehat{j} \equiv i - 1 \pmod{\widehat{n}}$ , and

- Page 191,  $D_{n/\widehat{n}}^{i,n}$  in two places below (8.26): Should read,  $D_{n/\widehat{n}}^{i^*,n}$ .
- Page 194, Fig. 8.4(a): Should look



- Page 221, Line 3 in Remark 8.7.2: Should read,  $O(|\epsilon|^{1/(\widehat{n}-1)})$ , instead of  $O(|\epsilon|^{2/(\widehat{n}-1)})$ .
- Page 234, Line 3 after (9.2): Should read, “and for all  $\varphi$  for  $\widehat{n} \geq 5$ .”
- Page 403, [184] in the reference list: Should read, Vardoulakis, I. and Sulem, J. (1995), instead of (1992).