Modeling and Analysis Principles for Chemical and Biological Engineers 2nd Edition

Errata for the Second Edition, First Printing

Check `www.chemengr.ucsb.edu/~jbraw/principles` for a current list

May 30, 2026

1. Page 477, ten lines from bottom. Change $\sin\theta\ BdW_y$ to $\sin\theta\ dW_y$. Thanks to Titus Quah of UCSB for pointing out this erratum.

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Other Changes from the First Edition to the Second Edition

May 30, 2026

1. Page 4. The Cauchy-Schwartz inequality is derived. The Euclidean norm (2-norm) is shown to satisfy the triangle inequality.
2. Page 124. The property that the Fourier series coefficients minimize the L_2 norm of the approximation error is *established*. Orthonormal rather than orthogonal basis functions are used in this development.
3. Page 225. Exercise 2.9 is modified to include Bessel's inequality as well as Parseval's equality.
4. Page 292. Item 7 on the convolution theorem has been expanded.
5. Page 413. The marginal intervals when estimating parameters for the case of unknown measurement error variance are provided. Exercise 4.60 (`www.chemengr.ucsb.edu/~jbraw/principles`) discusses how to derive this result.