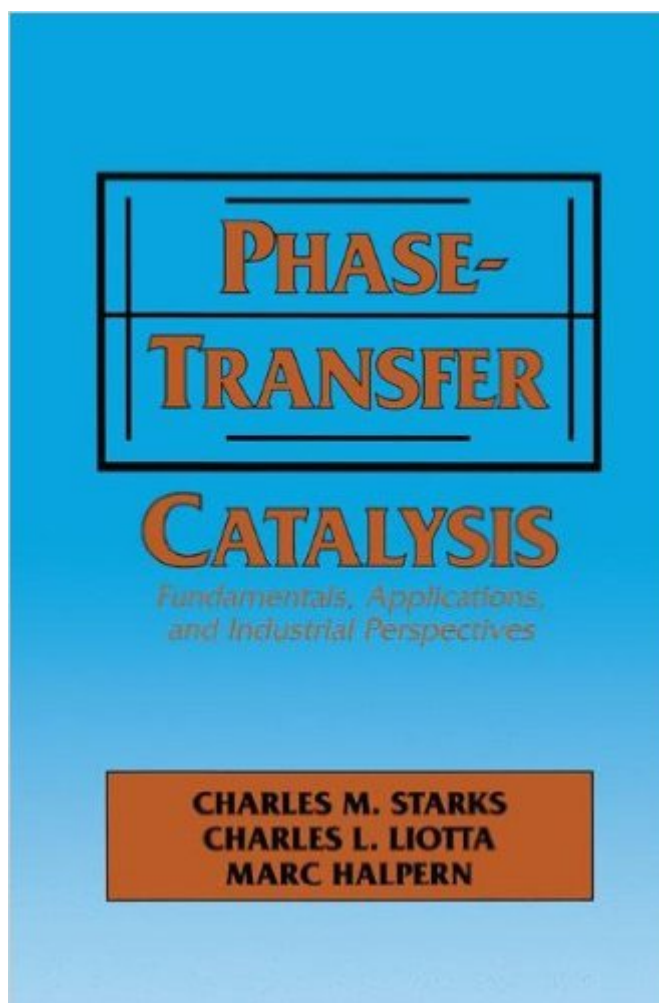


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Phase-Transfer Catalysis: Fundamentals, Applications, And Industrial Perspectives



Synopsis

Since 1971 when useful working concepts for the technique of phase-transfer catalysis (PTC) were introduced, the understanding, development, and applications of this method for conducting organic reactions has expanded exponentially. PTC has brought vast new dimensions and options to chemists and chemical engineers. From its use in less than ten commercial processes in 1975, PTC use has increased so that in the early 1990s it is involved in more than 600 industrial applications to manufacture products valued at between 10 and 20 billion U.S. dollars. PTC is widely used for simple organic reactions, steps in synthesis of pharmaceuticals, agricultural chemicals, perfumes, flavorants, and dyes; for specialty polymerization reactions, polymer modifications, and monomer synthesis; for pollution and environmental control processes; for analysis of trace organic and inorganic compounds; and for many other applications. Often, PTC offers the best (and sometimes only) practical technique to obtain certain products. The authors' experience in teaching a short course on phase-transfer catalysis has shown to us that a newcomer to PTC can easily be frustrated and confused by the large amount of information available in the literature and in patents. The purpose of this book, therefore, was to bring this information together in a logical and user-friendly way, without sacrificing matters of scholarly and fundamental importance.

Book Information

Hardcover: 668 pages

Publisher: Springer; 1994 edition (January 15, 1994)

Language: English

ISBN-10: 0412040719

ISBN-13: 978-0412040719

Product Dimensions: 6.1 x 1.6 x 9.2 inches

Shipping Weight: 2.4 pounds (View shipping rates and policies)

Average Customer Review: 5.0 out of 5 stars [See all reviews](#) (1 customer review)

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Customer Reviews

Covers the subject very well. However: There is repetition throughout the book indicating that the

three authors didn't coordinate their contributions. The chapters are unsigned. Graphics are sometimes of poor quality, especially toward the end. Many spelling and typo errors. Equation 7-1 is missing and in its place there was left a note to the author reminding him to insert it. The book was obviously not proofread or edited. Being a stickler for perfect spelling and appearance, I found these problems distracting.

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