

Diffusion: Mass Transfer in Fluid Systems (Cambridge Series in Chemical Engineering)

By E. L. Cussler

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This overview of diffusion and separation processes brings unsurpassed, engaging clarity to this complex topic. Diffusion is a key part of the undergraduate chemical engineering curriculum and at the core of understanding chemical purification and reaction engineering. This spontaneous mixing process is also central to our daily lives, with importance in phenomena as diverse as the dispersal of pollutants to digestion in the small intestine. For students, Diffusion goes from the basics of mass transfer and diffusion itself, with strong support through worked examples and a range of student questions. It also takes the reader right through to the cutting edge of our understanding, and the new examples in this third edition will appeal to professional scientists and engineers. Retaining the trademark enthusiastic style, the broad coverage now extends to biology and medicine.

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Review
"Very effective in leading the reader from one level of sophistication to the next...a wide variety of examples is presented from areas such as bioengineering, food science, and electrochemistry, in addition to traditional areas of chemical engineering....In summary, this is an outstanding example of a text written by an expert in the field." Journal of the American Chemical Society

About the Author
Professor Cussler teaches chemical engineering at the University of Minnesota. His research, which centers on membrane separations, has led to over 200 papers and four books. A member of the National Academy of Engineering, he has received the Colburn and Lewis Awards from the American Institute of Chemical Engineers, the Separations Science Award from the American Chemical Society, the Merryfield Design Award from the American Society for Engineering Education, and honorary doctorates from the universities of Lund and Nancy.

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