

Molecular Driving Forces: Statistical Thermodynamics in Chemistry & Biology

By Ken A. Dill, Sarina Bromberg

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Molecular Driving Forces is an introductory statistical thermodynamics text that describes the principles and forces that drive chemical and biological processes. It shows how the complex behaviors of molecules can result from a few simple physical processes, and a central theme is how simple models can give surprisingly accurate insights into the workings of the molecular world.

Written in a clear and reader-friendly style, the book gives an excellent introduction to the subject for novices. It should be useful to those who want to develop their understanding of this important field, seeing how physical principles can be applied to the study of modern problems in the chemical, biological, and materials sciences.

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A real intellectual tour de force, and a pleasure to teach from. -- *David L. Beveridge, Wesleyan University*

I found it very refreshing. Plausible examples are introduced at a very early stage. -- *Richard Jones, University of Sheffield, UK*

The examples send the reader right out of textbook land and into interesting and current problems. -- *John Schellman, University of Oregon*

This is the most clearly written, insightful Physical Chemistry text available. -- *Terrence G. Oas, Duke University*

About the Author
KEN A. DILL is Professor of Pharmaceutical Chemistry and Biophysics at the University of California, San Francisco. He received his undergraduate training at MIT, his PhD from the University of California, San Diego, and did postdoctoral work at Stanford. A leading researcher in biopolymer statistical mechanics and protein folding, he has been the President of the Biophysical Society and received the Hans Neurath Award from the Protein Society in 1998.

SARINA BROMBERG received her BFA at the Cooper Union for the Advancement of Science and Art, her PhD in molecular biophysics from Wesleyan University, and her postdoctoral training at the University of California, San Francisco. She writes, edits and illustrates scientific textbooks.

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