Books by MIT ChemE Faculty

MIT Chemical Engineering Faculty have written many seminal texts still being used in chemical engineering education today. Here is a list of some of the most recent titles by our faculty:

Chemical and Biological Process Dynamics and Control, 2025
George Stephanopoulos

Lectures in Classical Thermodynamics with an Introduction to Statistical Mechanics, 2021
Daniel Blankschtein

Viruses, Pandemics, and Immunity (MIT Press First Reads), 2020
Arup Chakraborty

Molecular Modeling and Theory on Chemical Engineering (Advances in Chemical Engineering) (1st edition, 2001)
Arup Chakraborty

Molecular Modeling and Theory on Chemical Engineering, (1st edition 2001)
Arup Chakraborty

Combustion Aerodynamics (Fuel and energy science series)
János M. Béer

"Perspectives in Chemical Engineering", Advances in Chemical Engineering,
Volume 16, Academic Press, 1991. Edited by C.K. Colton

Physical Principles of Food Preservation, second edition, revised and expanded
Marcus Karel

Development of Sustainable Bioprocessess: Modeling and Assessment
Charles Cooney

Fermentation and Enzyme Technology (Techniques in Pure and Applied Microbiology)
Daniel I. C. Wang
Charles L. Cooney

Metabolic Engineering Principles and Methodologies
Gregory N. Stephanopoulos

Dynamics of Polymeric Liquids. Volume 1: Fluid Mechanics
Robert C. Armstrong

Dynamics of Polymeric Liquids. Volume 2: Kinetic Theory
Robert C. Armstrong

Analysis of Transport Phenomena
William M. Deen

Chemical Process Control: An Introduction to Theory and Practice
George Stephanopoulos

Intelligent Systems in Process Engineering
George Stephanopoulos

Sustainable Energy – Choosing Among Options
Jefferson Tester

Sustainable Energy – Choosing Among Options (2nd Edition)
Jefferson Tester

Thermodynamics and Its Applications (3rd Edition)
Jefferson Tester

Energy and the Environment in the 21st Century
Jefferson Tester

Heat Mining
Jefferson Tester