

# Part III

## TERM PROJECTS

This last Part (III) is concerned with open-ended term projects where the phrase *term project* is defined as a study that requires an order of magnitude more effort than that associated with the normal problem (as presented in the last Part).

Each project in this portion of the book is presented in a stand-alone manner. No solution of any form is provided for any of the projects, although several potential solutions are available (for those who adopt the book for classroom and/or training purposes) in the authors' files. A reference section complements each term project area.

There are 12 term project subject areas. They are provided below with the accompanying number of term projects and chapter number.

Chapter 23: Applied Mathematics (2)

Chapter 24: Stoichiometry (2)

Chapter 25: Thermodynamics (2)

Chapter 26: Fluid Flow (6)

Chapter 27: Heat Transfer (4)

Chapter 28: Mass Transfer Operations (5)

Chapter 29: Chemical Reactors (2)

Chapter 30: Plant Design (4)

Chapter 31: Environmental Management (4)

Chapter 32: Health and Hazard Risk Assessment (4)

Chapter 33: Unit Operations Design Projects (3)

Chapter 34: Miscellaneous Topics (4)