

Magyar, master cellist for 16 years with the Hungarian String Quartet. Meanwhile Betty, the Berkeley music major, continues the family tradition by operating her own music studio.

In summary, Dick has made a significant contribution by identifying electrochemical phenomena where chemical engineering concepts find welcome application. He has helped unify diverse electrochemical subfields so that intercommunication between them has been promoted. Through his research students and his professional activities, he has contributed significantly to the broadening horizon of chemical engineering. □

ChE book reviews

MASS TRANSFER IN ENGINEERING PRACTICE

By Aksel L. Lydersen

John Wiley & Sons, 1983, xiii + 321 pgs. \$39.95

Reviewed by F. L. Rawling, Jr.

E.I. Du Pont de Nemours & Co., Inc.

This book is a companion volume to the author's previous book "Fluid Flow and Heat Transfer" (John Wiley & Sons, 1979). The aim of the present volume is to present a short refresher course in those areas of unit operations specifically dealing with mass transfer. The book consists of eight chapters: an introductory chapter on the principles of diffusion and seven chapters covering distillation, gas absorption and desorption, liquid-liquid extraction and leaching, humidification, drying of solids, adsorption and ion exchange, and crystallization. The introductory chapter on the principles of diffusion provides a summary of the major equations together with a short discussion of the various types of diffusion, i.e. diffusion with bulk of mass in motion, eddy diffusion, molecular diffusion in liquids, etc. A short discussion of the two film theory and the penetration theory is also presented. No attempt is made at providing a fundamental treatment of the subject of diffusion; rather, reference is made to the literature. Several problems, typical of those encountered in industry are worked out in detail. There are four problems to be worked by the reader. The chapter ends with a good bibliography, although half the references are pre-1970.

Approximately two-thirds of the book is con-

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cerned with staged operations, reflecting the industrial importance of this type of process. In general, each chapter follows the same outline: a short discussion of the theory involved together with the relevant equations, a discussion of the unit operation presenting the assumptions involved and the major design equations, a very general discussion on the various types of equipment employed, a series of worked examples, a set of problems to be worked by the reader, and a bibliography.

The worked examples in each chapter make this book worthwhile. They are well chosen to illustrate industrial problems and are worked out in detail, giving the assumptions and reasoning involved in arriving at a solution. In a few instances, a programmable calculator (Hewlett-Packard) is used in the solution of a problem. The calculator program is given.

I believe the book fulfills its goal, i.e. a refresher course in mass transfer. The many references adequately direct the user to the fundamental literature. Practicing engineers faced with a problem in an area of mass transfer that they have not been involved with for some time will find this a good, succinct review. Students will find the worked examples illuminating. Instructors should find this book to be a useful adjunct to their course. □