



ENQ3232 - Métodos Numéricos Aplicados à Engenharia Química

Introdução. Solução de Equações Diferenciais Parciais: método das diferenças finitas, método de volumes finitos.

Bibliografia:

DAVIS, Mark E., Numerical Methods and Modeling for Chemical Engineering. John Wiley & Sons, New York, 1984.

HOLLAND, Charles D.; LIAPIS, Athanasios I., Computer Methods for Solving Dynamic Separation Problems, McGraw-Hill, 1983.

RICE, Richard G.; DO, Duong D., Applied Mathematics and Modeling for Chemical Engineers, John Wiley & Sons, New York, 1995.

VILLADSEN, John; MICHELSEN, MICHAEL L., Solution of Differential Equation Models by Polynomial Approximation. Prentice Hall, New Jersey, 1978.

WALAS, Stanley M., Modeling with Differential Equations in Chemical Engineering, Butterworth Heinemann, Boston, 1991.