

(7.5-4)

show

$$C(V_A - V_B) = -\frac{C D_{AB} dx_A}{x_A x_B dz}$$

(1) $N_A = J_A^* + C_A v_M$

Table 7.5-1

$$N_A = C_A v_A \quad J_A^* = -C D_{AB} \frac{dx_A}{dz}$$

Eq. (7.5-2)

$$v_M = \frac{C_A v_A}{C} + \frac{C_B v_B}{C}$$

substitute into original equation (1) for N_A

(2) $C_A v_A = -C D_{AB} \frac{dx_A}{dz} + C_A \left[\frac{C_B v_A}{C} + \frac{C_B v_B}{C} \right]$

rearrange as follows.

$$C_A v_A = \frac{C}{C} C_A v_A = \frac{(C_A + C_B)}{C} C_A v_A = \frac{C_A C_A v_A}{C} + \frac{C_A C_B v_A}{C}$$

substitute into Eq. (2).

$$\frac{C_A C_A v_A}{C} + \frac{C_A C_B v_A}{C} = -C D_{AB} \frac{dx_A}{dz} + \frac{C_A C_A v_A}{C} + \frac{C_A C_B v_B}{C}$$

rearrange.

$$\frac{C_A C_B}{C} (v_A - v_B) = -C D_{AB} \frac{dx_A}{dz}$$

multiply left side by $C/x_A x_B$.

$$C \frac{C_A}{C} \frac{C_B}{C} (v_A - v_B) = C x_A x_B (v_A - v_B) = -C D_{AB} \frac{dx_A}{dz}$$

$$\boxed{C (v_A - v_B) = -\frac{C D_{AB} dx_A}{x_A x_B dz}}$$

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Transport Processes and Separation Process Principles Christie John Geankoplis, Allen Hersel, Daniel H. Lepek, 2018-05-02 The Complete Unified Up to Date Guide to Transport and Separation Fully Updated for Today's Methods and Software Tools Transport Processes and Separation Process Principles Fifth Edition offers a unified and up to date treatment of momentum heat and mass transfer and separations processes This edition reorganized and modularized for better readability and to align with modern chemical engineering curricula covers both fundamental principles and practical applications and is a key resource for chemical engineering students and professionals alike This edition provides New chapter objectives and summaries throughout Better linkages between coverage of heat and mass transfer More coverage of heat exchanger design New problems based on emerging topics such as biotechnology nanotechnology and green engineering New instructor resources additional homework problems exam questions problem solving videos computational projects and more Part 1 thoroughly covers the fundamental principles of transport phenomena organized into three sections fluid mechanics heat transfer and mass transfer Part 2 focuses on key separation processes including absorption stripping humidification filtration membrane separation gaseous membranes distillation liquid liquid extraction adsorption ion exchange crystallization and particle size reduction settling sedimentation centrifugation leaching evaporation and drying The authors conclude with convenient appendices on the properties of water compounds foods biological materials pipes tubes and screens The companion website trine.edu/transport5ed contains additional homework problems that incorporate today's leading software including Aspen CHEMCAD MATLAB COMSOL and Microsoft Excel

Transport Processes and Separation Process Principles (Includes Unit Operations) Christie J. Geankoplis, 2003-02-01 The comprehensive unified up to date guide to transport and separation processes Today chemical engineering professionals need a thorough understanding of momentum heat and mass transfer processes as well as separation processes Transp

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Richard K. Gardner,Phyllis Grumm,1976 *Books in Print Supplement* ,1977 *Masters Abstracts International* ,1985

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Christie John Geankoplis,2013-07-25 Appropriate for one year transport phenomena also called transport processes and separation processes course First semester covers fluid mechanics heat and mass transfer second semester covers separation process principles includes unit operations The title of this Fourth Edition has been changed from Transport Processes and Unit Operations to Transport Processes and Separation Process Principles Includes Unit Operations This was done because the term Unit Operations has been largely superseded by the term Separation Processes which better reflects the present modern nomenclature being used The main objectives and the format of the Fourth Edition remain the same The sections on momentum transfer have been greatly expanded especially in the sections on fluidized beds flow meters mixing and non Newtonian fluids Material has been added to the chapter on mass transfer The chapters on absorption distillation and liquid liquid extraction have also been enlarged More new material has been added to the sections on ion exchange and crystallization The chapter on membrane separation processes has been greatly expanded especially for gas membrane theory Transport Processes and Separation Process Principles, Global Edition Christie Geankoplis,2023-06 **Solutions**

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