

C. JUDSON KING

List of Publications

1. "Systems Analysis in Chemical Process Design: An Example." Trans. Rutgers Conf., Amer. Soc. Qual. Control, 13, 129 (September, 1961).
2. "Absorption and Distillation" (with J. E. Vivian) in Modern Chemical Engineering, A. Acrivos, ed., Chap. 9, Vol. I, p. 437-485, Reinhold Publ. Co. (1963).
3. Book Review: "Saline Water Conversion" II. R. F. Gould, ed., Amer. Chem. Soc., Science, 141, 626 (August 16, 1963).
4. Book Review: "Mass Transfer Process Calculations", by H. Sawistowski and W. Smith. Chem. Eng. News, 41, 68 (1963).
5. "Fresh Water from Sea Water" in A Course in Process Design by T. K. Sherwood, M. I. T. Press (1964).
6. "Diffusivities of Slightly Soluble Gases in Water" (with J. E. Vivian). A.I.Ch.E. Jour., 10, 220 (1964).
7. "The Mechanism of Liquid Phase Resistance to Gas Absorption in a Packed Column" (with J. E. Vivian). Pres. at A.I.Ch.E. Mtg., Buffalo, May, 1963. A.I.Ch.E. Jour., 10, 221 (1964).
8. "The Additivity of Individual Phase Resistances in Mass Transfer Operations" Pres. at A.I.Ch.E. Mtg., Pittsburgh, May, 1964. A.I.Ch.E. Jour., 10, 671 (1964).
9. Letter to the Editor: "For Curved Operating Line" Chem. Eng., 72, 7 (March 15, 1965).
10. "Mass Transfer During Short Surface Exposures in Countercurrent Flow" Ind. Eng. Chem. Funds., 4, 125 (1965).
11. "Gas-Liquid Mass Transfer in Cocurrent Froth Flow" (with J. M. Heuss and C. R. Wilke). UCRL-11570 Rev., A.I.Ch.E. Jour., 11, 866 (1965).
12. "Liquid Phase Diffusion of Nonelectrolytes at High Dilution" (with L. Hseuh and K-W. Mao). J. Chem. Eng. Data, 10, 348 (1965).
13. "Turbulent Liquid Phase Mass Transfer at a Free Gas-Liquid Interface" I&EC Funds., 5, 1 (1966).
14. "The Influence of Diffusivity on Liquid Phase Mass Transfer to the Free Interface in a Stirred Vessel" (with A. A. Kozinski). Pres. at A.I.Ch.E. Mtg., Philadelphia, December 1965. A.I.Ch.E. Jour., 12, 109 (1966).

15. "Concentration-Dependent Diffusion Coefficients and Rates of Mass Transport" I&EC Funds., 5, 146 (1966).
16. Letter to the Editor: "On the Addition of Phase Resistances" Chem. Eng. Sci., 21, 196 (1966).
17. "Pyrolysis of Ethylbenzene With and Without Oxygen Initiation" (with E. D. Hausmann). UCRL-16021 Rev., I&EC Funds., 5, 295 (1966).
18. "Axial Dispersion in Liquid Flow through Packed Beds" (with S. F. Miller). UCRL-11951 Rev., A.I.Ch.E. Jour., 12, 767 (1966).
19. "Liquid Diffusivities in the Glycol-Water System" (with C. H. Byers). UCRL-16622, J. Phys. Chem., 70, 2499 (1966).
20. "Factors Influencing the Rate of Heat Conduction in Freeze-Drying" (with T. A. Triebes). I&EC Proc. Des. Devel., 5, 430 (1966).
21. Book Review: "Mass Transfer and Absorbers", by T. Hobler, A.I.Ch.E. Jour., 12, 626 (1966).
22. "The Relationship Between Transport Properties and Rates of Freeze Drying of Poultry Meat" (with O. C. Sandall and C. R. Wilke). Pres. at A.I.Ch.E. Mtg., Detroit, December 1966. A.I.Ch.E. Jour., 13, 428 (1967); Chem. Eng. Prog. Symp. Ser., 64, No. 86, 43 (1968).
23. "Gas-Liquid Mass Transfer with a Tangentially Moving Interface: Part I. Theory" (with C. H. Byers). A.I.Ch.E. Jour., 13, 628 (1967).
24. "Gas-Liquid Mass Transfer with a Tangentially Moving Interface: Part II. Experimental Studies" (with C. H. Byers). Pres. at A.I.Ch.E. Mtg., Detroit, December, 1966. A.I.Ch.E. Jour., 13, 637 (1967).
25. "Chemical Engineering Case Problems" (with Dr. R. Woods, P. L. Silveston and J. H. Gary). Education Projects Committee, A.I.Ch.E., New York (1967). Chap. 1, The Use of Case Problems in Chemical Engineering Instruction; Chap. 2, Continuous Drying of Air; Chap. 5, Production of Benzene and Xylenes by Hydrodealkylation. Also presented at A.I.Ch.E. Mtg., New York, November 1967.
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27. "Convective Heat Transfer for Freeze Drying of Foods" (with J. P. Clark). Pres. at Inst. of Food Technol. Annual Mtg., Philadelphia, May 22, 1968. Food Technol., 22, 1235 (1968).
28. "Physical Properties Important for the Freeze-Drying of Poultry Meat" (with W. K. Lam and O. C. Sandall). Food Technol., 22, 1302 (1968)
29. "Mass Transport in Freeze-Drying: Basic Studies and Processing Implications" (with R. D. Gunn and J. P. Clark). International Institute of Refrigeration, Commission X, Lausanne, Switzerland,

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32. "Case Problems in Chemical Process Design and Engineering" Chem. Eng. Education, 4, 124 (1970).
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35. "Process Design with Computers" (Diseno de Procesos con Computadoras) (with F. J. Barnés). Tercer Seminario Latino Americano de Quimica, Cd. de Mexico, 1970.
36. Book: "Separation Processes", McGraw-Hill (1971).
37. "Mass Transport Characteristics of Freeze-Dried Foods" (with R. D. Gunn). Pres. at A.I.Ch.E. Mtg., Los Angeles, December, 1968; Chem. Eng. Prog. Symposium Series, 67, No. 108, 94 (1971).
38. "Convective Freeze-Drying in Mixed or Layered Beds" (with J. P. Clark). Pres. at A.I.Ch.E. Mtg., Los Angeles, December, 1968; Chem. Eng. Prog. Symposium Series, 67, No. 108, 102 (1971).
39. "Factors Governing Terminal Rates of Freeze-Drying of Poultry Meat" (with A. Margaritis). Pres. at A.I.Ch.E. Meeting, Portland, Oregon, August, 1969; Chem. Eng. Prog. Symposium Series, 67, No. 108, 112 (1971).
40. "Retention of Volatile Flavor Components during Drying of Fruit Juices" (with S. K. Chandrasekaran). Pres. at A.I.Ch.E. Mtg., Washington, D.C., November, 1969; Chem. Eng. Prog. Symposium Series, 67, No. 108, 122 (1971).
41. "Solid-Liquid Phase Equilibrium in Multicomponent Aqueous Sugar Solutions" (with S. K. Chandrasekaran). Journal of Food Science, 36, 699 (1971).
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44. "Analysis of Volatiles Loss from Food Liquids during Freeze-Drying and Evaporative Drying as a Ternary Diffusion Process" (with S. K. Chandrasekaran). XIII Intl. Congress of Refrigeration, Washington, D.C., Commission X, September, 1971.
45. "Calculation of Minimum Reflux for Distillation Columns with Multiple Feeds" (with F. J. Barnes, D. N. Hanson). Ind. Eng. Chem. Proc. Des. Devel., 11, 136 (1972).
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48. "Volatiles Retention during Drying of Food Liquids" (with S. K. Chandrasekaran). A.I.Ch.E. Jour., 18, 520 (1972).
49. "A Three-Column, Three-Detector Gas Chromatographic Method for the Single-Sample Analysis of a Mixture of  $\text{SiCl}_4$ ,  $\text{Cl}_2$ , Ar, N,  $\text{CO}_2$  and  $\text{CO}_2$ " (with P. K. Basu, S. Lynn), J. Chromatog. Sci., 10, 479 (1972).
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  59. "Freeze Drying", chapter in *Food Dehydration*, W. B. Van Arsdel, M. J. Copley and A. I. Morgan, Jr., eds., AVI Publ. Co., Westport, Conn., 2nd ed., 1973.
  60. "Simple Technique to Determine Solubilities of Sparingly Soluble Organics: Solubility and Activity Coefficients of d-Limonene, n-Butylbenzene, and n-Hexyl Acetate in Water and Sucrose Solutions" (with H. A. Massaldi). *J. Chem. Eng. Data*, 18, 393 (1973).
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  69. "Determination of Volatiles by Vapor Head-Space Analysis in a Multi-Phase System: d-Limonene in Orange Juice" (with H. A. Massaldi). *J. Food Sci.*, 39, 434 (1974).
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80. "Effect of Vertical Alignment on the Performance of Bubble and Foam Fractionation Columns" (with E. Valdes-Krieg and H. H. Sephton). *AIChE Journal*, 21, 400 (1974).
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91. "Recovery of Essential Oil and Suspended Solid Matter from Lemon-Processing Wastewater by Volatile-Solvent Extraction and Emulsion Flotation" (with J. P. Earhart). *J. Food Sci.*, 41, 1247 (1976).
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97. "Heat and Mass Transfer Fundamentals Applied to Food Engineering" Pres. at Symp. on Improved Unit Operations in Food Engineering, Inst. of Food Technologists Annual Mtg., Anaheim, CA, June 1976. *J. Food Process Engineering*, 1, 3 (1977).
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113. “Process Alternatives for Stack Gas Desulfurization with H<sub>2</sub>S Regeneration to Produce Sulfur”



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