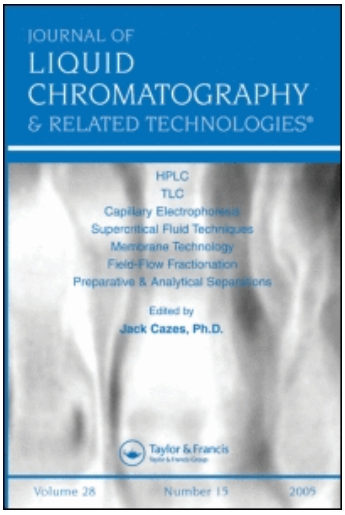

Journal of Liquid Chromatography & Related Technologies
Publication details, including instructions for authors and subscription information:
http://www.informaworld.com/smpp/title~content=t713597273

A Review of: "Theory and Mathematics of Chromatography, A. S. Said; published by Dr. Alfred Huthig Verlag, Heidelberg; 1981; 210 pp.; $38.00"

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To cite this Article Cazes, Jack(1981) 'A Review of: "Theory and Mathematics of Chromatography, A. S. Said; published by Dr. Alfred Huthig Verlag, Heidelberg; 1981; 210 pp.; $38.00"', Journal of Liquid Chromatography & Related Technologies, 4: 11, 2081
To link to this Article: DOI: 10.1080/01483918108067562
URL: http://dx.doi.org/10.1080/01483918108067562

JOURNAL OF LIQUID CHROMATOGRAPHY, 4(11), 2081 (1981)

BOOK REVIEW

"Theory and Mathematics of Chromatography,"
A. S. Said; published by Dr. Alfred Huthig Verlag,
Heidelberg; 1981; 210 pp.; $38.00.

Chromatography is an analytical technique where experimental methodology has preceeded the development of an exact mathematical treatment. This volume first presents the basics of the mathematical tools needed to deal with chromatographic theory. It superficially treats such subjects as solution of algebraic equations, the properties of logarithms, differentiation, integration, series, concentration distributions, and functions, apparently as a review in preparation for the chromatographic theory. Special emphasis is given to Normal, Poisson, and Binomial distribution functions.

The theory of chromatography is mathematically developed in the second half. Subjectis covered include plate theory, variance additivity in chromatographic columns, peak shapes in gradient elution, retention relationships, composite columns, resolution, peak capacity, non-linear chromatography, temperature programming, capillary columns, and rate theory of chomatography.

This book is, by no means, light reading. It is, by its nature, highly mathematical and each section must be carefully studied more than once to be completely absorbed. It is very well written and is required reading for all who want a thorough understanding of chromatography.

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