



# Regional Frequency Analysis: An Approach Based on L-Moments

By J. R. M. Hosking, James R. Wallis

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Extreme environmental events, such as floods, droughts, rainstorms, and high winds, have severe consequences for human society. Regional frequency analysis helps to solve the problem of estimating the frequency of these rare events at one site by using data from several sites. This book is the first complete account of the L-moment approach to regional frequency analysis. Regional Frequency Analysis comprehensively describes the theoretical background to the subject, is rich in practical advice for users, and contains detailed examples that illustrate the approach. This book will be of great value to hydrologists, atmospheric scientists and civil engineers, concerned with environmental extremes.

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### Review

"...well written with cogency and engineering examples." Ramalingam Shanmugam, University of Colorado, Denver

"...a well written, complete description of an important method of estimating the frequency of extreme hydrologic events. Students in environmental statistics should read this book to gain insight into the practical side of statistics. Hydrologists, engineers, and statisticians concerned with overcoming some of the difficulties in frequency analysis often encountered in environmental studies will find this book well worth the price and should include it in their libraries." Gary Tasker, JASA

"This book is recommended for researchers in atmospheric and hydrological sciences for its careful approach to frequency analysis, its good introduction to L-movements, and its comprehensive appendix." Meteorology and Atmospheric Physics

"The book is an excellent treatise on a practical approach...Hosking and Wallis have described a complex subject in a simple and logical manner that can be understood by both the layman and the expert....I highly recommend this book for all analysis not only for the L-moment approach, but for practical, conceptual, and philosophical concerns that are inherent to all analyses of environmental data." Nathaniel B. Guttman

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