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Sommario/riassunto

Richard G. Brereton's 'Data Analysis and Chemometrics for Metabolomics' provides an in-depth exploration of the application of data analysis and chemometric techniques in the field of metabolomics. The book covers various instrumental methods such as mass spectrometry, nuclear magnetic resonance, and vibrational spectroscopy, emphasizing their roles in identifying and analyzing metabolites. It includes detailed case studies on diverse topics like rheumatoid arthritis, malaria diagnosis, and the effects of environmental factors on metabolism. The book also delves into statistical methods, experimental design, and pattern recognition, offering practical insights for researchers and practitioners in metabolomics. It is primarily intended for scientists and students in analytical chemistry and related fields.