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Analyzing Compositional Data with R - K. Gerald van den ...

Analyzing Compositional Data with R. K. Gerald van den Boogaart, Raimon Tolosana-Delgado (auth.) This book presents the statistical analysis of compositional data sets, i.e., data in percentages, proportions, concentrations, etc. The subject is covered from its grounding principles to the practical use in descriptive exploratory analysis, robust linear models and advanced multivariate statistical methods, including zeros and missing values, and paying special attention to data visualization ...

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Regression, classification, contour plots, hypothesis testing and fitting of distributions for compositional data are some of the functions included. The standard textbook for such data is John Aitchison's (1986) "The statistical analysis of compositional data". Relevant papers include a) Tsagris M.T., Preston S. and Wood A.T.A. (2011) A data-based power transformation for compositional data.

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Bren, Batagelj: Compositional Data Analysis with R 8 Compositional data sample space Compositions (compounds, mixtures, alloy...,) can be represented with vectors of the portions of individual components. The portions are nonneg- ative and they have constant sum.

Analyzing Compositional Data With R

Analyzing Compositional Data with R. Authors: van den Boogaart, K. Gerald, Tolosana-Delgado, Raimon Free Preview. Guides readers from the first steps of a descriptive analysis to the application of multivariate methods; Covers the most commonly used statistical methods in scientific applications ...

robCompositions package | R Documentation

Chemometrics and computational physics are concerned with the analysis of data arising in chemistry and physics experiments, as well as the simulation of physico-chemico systems. Many of the functions in base R are useful for these ends.

Compositional data analysis with 'R' and the package ...

In particular, a compositional data point (or composition for short) can be represented by a real vector with positive components. The sample space of compositional data is a simplex: $S^D = \{ x = [x_1, x_2, \dots, x_D] \in \mathbb{R}^D \mid x_i > 0, i = 1, 2, \dots, D; \sum_{i=1}^D x_i = \kappa \}$.

CRAN Task View: Chemometrics and Computational Physics

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Discriminant analysis for compositional data (Fisher rule) using robust methods Robust regression with compositional predictors Anderson-Darling normality tests for compositional data

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Compositional Data Analysis with R - UdG

analysis of compositional data following Aitchison's philosophy, within the statistical package. 'R' and using a contributed package (called 'compositions'), which is devoted specially to com-. positional data analysis. The studied tasks are: descriptive statistics and plots (ternary diagrams,

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Compositional Data analysis (CODA) regression approach is followed to compare the effects of explanatory variables on share of calorie intakes from protein versus share of calorie intakes from fat...

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