

Preface

The motivation in writing this book comes after the presentation of a poster at the R conference 2015 held at Denmark, Alborg, titled “Extending the Quasi-Symmetry Model: Quasi-Symmetry with n Degree.” I found that modeling doubly classified table is quite unknown to most conference attendees. Although there has been a dramatic growth in the development and application of doubly classified models, there is not a single book that is written in R on this subject. The applications on doubly classified modeling are also restricted to illustrate it using software like SPSS and SAS, appeared most often in journal articles (e.g., Lawal and colleagues). Doubly classified models are not commonly appeared in statistic textbooks. Even there are books written on this subject, it is often restricted to a section or at most a chapter. This is probably the right time to put these models in an organized way into a book for sharing.

This book focuses on doubly classified models. The main aim of the book is to describe doubly classified models in a way readers can easily understand. Although mathematical representations are unavoidable for purpose of clarity, they are always accompanied with explanation in plain language. As doubly classified is probably not a familiar topic to a lot of people, including statisticians and data analysts, for those who have not heard of it, this book serves you well. You will find it a good starting point to have a basic understanding about doubly classified models. A lot of examples accompanied the explanation are given in the text to illustrate the characteristics of the various doubly classified models. It is applied oriented however not losing its function as a basic textbook and reference. The formulas for the various doubly classified models are given, together with examples illustrating the concepts and usages. For those who are not familiar with doubly classified modeling will find this book easier to understand. A new presentation form, referred to as symbolic table, is used throughout the text as a summarized table to explain the main characteristics of doubly classified model. Researchers, data analysts, and

undergraduate and postgraduate students are suited audiences and most suitable for applied statisticians and researchers aim to use doubly classified model as an analytical tool for their studies.

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