



Book | © 2018

Advances in Growth Curve and Structural Equation Modeling

Topics from the Indian Statistical Institute on the 125th Birth Anniversary of PC Mahalanobis

[Home](#) > [Book](#)**Editors:** [Ratan Dasgupta](#)

Presents a broad range of growth curve models with immense potential to solve real-world problems

Fosters investigation into various key theoretical issues

Provides deep insight into a little understood, underlying process that culminates in observable phenomena

3356 Accesses | **7** Citations | **2** Altmetric

Sections

[Table of contents](#)[About this book](#)[Keywords](#)[Editors and Affiliations](#)[About the editor](#)

[Bibliographic Information](#)

This is a preview of subscription content, [access via your institution](#).

Table of contents (11 chapters)

Search within book

Front Matter

[PDF](#) ↓

Pages i-xii

[Mahalanobis Distance and Longitudinal Growth](#)

Ratan Dasgupta

Pages 1-20

[Stock Market Growth Link in Asian Emerging Countries: Evidence from Granger Causality and Co-integration Tests](#)

Monalisha Pattnaik, Padmabati Gahan

Pages 21-44

[Optimum Designs for Pharmaceutical Experiments with Relational Constraints on the Mixing Components](#)

Manisha Pal, Nripes K. Mandal, Bikas K. Sinha

Pages 45-57

[Growth Curve of Socio-economic Development in North-Eastern Tribes](#)

Ratan Dasgupta

Pages 59-75

[Interrelationship Between Poverty, Growth, and Inequality in India: A Spatial Approach](#)

Sandip Sarkar, Samarjit Das

Pages 77-99

[Successional Changes in Some Physicochemical Properties on an Age Series of Overburden Dumps in Raniganj Coalfields, West Bengal, India](#)

Santu Malakar, Hema Gupta (Joshi)

Pages 101-112

[Growth and Nutritional Status of Preschool Children in India](#)

Susmita Bharati, Manoranjan Pal, Soumendu Sen, Premananda Bharati

Pages 113-125

[Bootstrap of Deviation Probabilities with Applications II](#)

Ratan Dasgupta

Pages 127-136

[Recent Advances in the Statistical Analysis of Retrospective Time-to-Event Data](#)

Sedigheh Mirzaei Salehabadi, Debasis Sengupta

Pages 137-150

[Mathematical Aptitude and Family Income in North-Eastern Tribes](#)

Ratan Dasgupta

Pages 151-159

[Folklore Versus Genetics: A Mitochondrial DNA Investigation About the Origin and Antiquity of the Adi Sub-tribes of Arunachal Pradesh, India](#)

S. Krithika, T. S. Vasulu

Pages 161-185

Back Matter

[PDF](#) ↓

Pages 187-192

[Back to top ↑](#)

About this book

This book describes recent trends in growth curve modelling research in various subject areas, both theoretical and applied. It explains and explores the growth curve model as a valuable tool for gaining insights into several research topics of interest to academics and practitioners alike. The book's primary goal is to disseminate applications of the growth curve model to real-world problems, and to address related theoretical issues. The book will be of interest to a broad readership: for applied statisticians, it illustrates the importance of growth curve modelling as applied to actual field data; for more theoretically inclined statisticians, it highlights a number of theoretical issues that warrant further investigation.

[Back to top ↑](#)

Keywords

Growth Curve Model**Structural Equation Modelling****Agriculture Tribal Welfare****Econometrics**[Back to top ↑](#)

Editors and Affiliations

**Theoretical Statistics and Mathematics
Unit, Indian Statistical Institute,
Kolkata, India**

Ratan Dasgupta

[Back to top ↑](#)

About the editor

Professor Ratan Dasgupta is a Senior Professor of Statistics at the Theoretical Statistics and Mathematics Unit, Indian Statistical Institute, Kolkata. His research interests include non-parametric statistics, rates of convergence in the central limit theorem, and the application of statistics to industrial quality control, biology, physics, sociology, agriculture, education, environment and other natural sciences. He has been at the forefront of promoting the theory and applications of growth curve modelling. His knowledge, expertise and extensive publication record on the topic, as well as his outstanding theoretical skills, make him uniquely qualified to edit this volume.

[Back to top ↑](#)

Bibliographic Information

Book Title	Book Subtitle	Editors
Advances in Growth Curve and Structural Equation Modeling	Topics from the Indian Statistical Institute on the 125th Birth Anniversary of PC Mahalanobis	Ratan Dasgupta

DOI https://doi.org/ 10.1007/978- 981-13-1843-6	Publisher Springer Singapore	eBook Packages Mathematics and Statistics , Mathematics and Statistics (RQ)
Copyright Information Springer Nature Singapore Pte Ltd. 2018	Hardcover ISBN 978-981-13- 1842-9 Published: 27 September 2018	Softcover ISBN 978-981-13- 4692-7 Published: 29 December 2018
eBook ISBN 978-981-13- 1843-6 Published: 19 September 2018	Edition Number 1	Number of Pages XII, 192
Number of Illustrations 19 b/w illustrations, 25 illustrations in colour	Topics Statistics in Business , Management , Economics , Finance , Insurance , Economic Growth , Quantitative Economics	

[Back to top](#) ↑

Not logged in - 106.212.87.71

Not affiliated

SPRINGER NATURE

© 2023 Springer Nature Switzerland AG. Part of [Springer Nature](#).