

1. Record Nr.	UNINA9910349474503321
Titolo	Advances in Growth Curve and Structural Equation Modeling : Topics from the Indian Statistical Institute—Proceedings 2017 / / edited by Ratan Dasgupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2018
ISBN	9789811309809 981-13-0980-9
Edizione	[1st ed. 2018.]
Descrizione fisica	1 online resource (X, 202 p. 132 illus., 81 illus. in color.)
Disciplina	330.015195
Soggetti	Statistics Economic development Econometrics Statistics in Business, Management, Economics, Finance, Insurance Economic Growth Statistical Theory and Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Longitudinal studies on Mathematical Aptitude and Intelligence Quotient in North Eastern tribes -- Cross sectional studies on Mathematical Aptitude and Intelligent Quotient in North Eastern tribes -- Retrospective longitudinal studies of social environment in North Eastern tribes -- Growth models for repeated measurement mixture experiments -- Growth models for repeated measurement mixture experiments: optimal designs for growth prediction -- An overview of growth and nutritional status among 5-18 year children in India -- Growth model for micro-particle ensemble probability -- Past and present status of Mangroves in Sunderban from ecological viewpoint -- Longitudinal Growth curve of Elephant foot yam under stress and plant sensitivity.
Sommario/riassunto	This book explains and explores the growth curve model as a tool to gain insights into various research topics of interest to academics and practitioners alike. It includes studies on growth models for repeated measurement mixture experiments, and optimal designs for growth

prediction in order to find an optimum design for the most efficient estimation of the parameters of the mixture models. It presents longitudinal studies conducted on the mathematical aptitude and intelligence quotient of tribal population in North Eastern states of India, and innovative statistical analysis showing that the status of tribes is improving over time. These results are supplemented by similar cross- sectional studies, and a retrospective longitudinal study of the social environment in North Eastern tribes indicating that the growth status of the social environment is improving. Child health is an important topic in developing countries, and as such the book features an overview of the growth and nutritional status of children aged 5 to 18 in India. Characterization of Extended Uniform Distribution and its applications for quality control in industrial production, and in yield data of tuber crops among others are discussed. Characterizations of distribution in terms of performance rate are also proved. There is also a contribution examining the past and present status of mangroves in Sunderban region of the Indian state of West Bengal from an ecological viewpoint using a growth curve model set-up. Lastly, it includes a chapter on a statistical study of platelet size decomposition and related growth model. Highlighting the importance of growth curve modelling as it applies to actual field data and encouraging more theoretically inclined statisticians to look into theoretical issues that need investigation, the book disseminates applications of the growth curve model to real-world problems and addresses related theoretical issues for the attention of theoreticians and practitioners.
