

Mathematical Formulation And Analytics

Indian Statistical Institute Series: Unleashing the Power of Data

Mathematical formulation and analytics have become indispensable tools in today's data-driven world. With the exponential growth of data, businesses and organizations are seeking ways to turn this vast amount of information into valuable insights that can drive strategic decision-making and fuel their success.

The Indian Statistical Institute (ISI) is at the forefront of pioneering research in mathematical formulation and analytics. Established in 1931, ISI has been instrumental in developing innovative approaches to data analysis, statistical modeling, and mathematical optimization. Through their series of courses and programs, ISI aims to equip individuals with the necessary skills and knowledge to navigate the complexities of the data landscape.

The Power of Mathematical Formulation

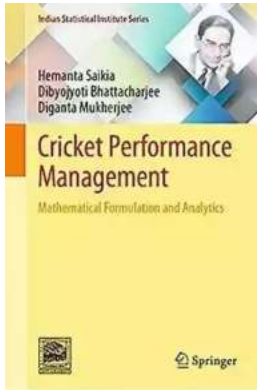
Mathematical formulation is the process of representing real-world problems in a mathematical framework. It involves translating complex, unstructured data into a structured format that can be analyzed and solved using mathematical techniques. This allows researchers and analysts to gain a deeper understanding of the underlying patterns and relationships within the data.

Cricket Performance Management: Mathematical Formulation and Analytics (Indian Statistical Institute Series)

by Sumit Ghosh(1st ed. 2019 Edition, Kindle Edition)

★★★★★ 5 out of 5

Language : English



File size : 5455 KB
Screen Reader : Supported
Print length : 247 pages



ISI's Mathematical Formulation and Analytics series provides participants with a comprehensive understanding of the principles and techniques behind mathematical modeling. Participants learn how to formulate real-world problems into mathematical equations, which can then be solved to uncover meaningful insights. By applying mathematical modeling, participants can make predictions, optimize processes, and make data-driven decisions.

One of the key strengths of mathematical formulation is its versatility. It can be applied across a wide range of industries and domains, including finance, healthcare, marketing, and engineering. For example, mathematical models are used in financial risk assessment to predict market trends and optimize investment strategies. In healthcare, models can help identify disease patterns, understand patient behavior, and optimize treatment plans. The possibilities are endless.

Unlocking the Potential with Analytics

Analytics is the art and science of uncovering patterns, trends, and insights from data. It involves the use of statistical techniques, machine learning algorithms, and data visualization tools to extract meaningful information from large and

complex datasets. Analytics allows organizations to make data-driven decisions, optimize processes, and improve overall performance.

The Indian Statistical Institute's Analytics series focuses on providing participants with a strong foundation in statistical analysis and data mining. Participants learn how to apply advanced statistical techniques to extract valuable insights from raw data. They also acquire the skills to interpret and communicate these findings effectively.

Analytics has the power to transform businesses and industries. With the right data, tools, and expertise, organizations can gain a competitive edge, identify new revenue streams, and improve operational efficiency. Retailers can optimize their pricing strategies, manufacturers can enhance supply chain operations, and healthcare providers can personalize patient care.

The Indian Statistical Institute: A Hub of Excellence

Established in Kolkata, India, the Indian Statistical Institute has been at the forefront of statistical research and education for nearly a century. With campuses spread across multiple locations, including Delhi, Bangalore, and Chennai, ISI has become a hub for cutting-edge research, training, and collaboration.

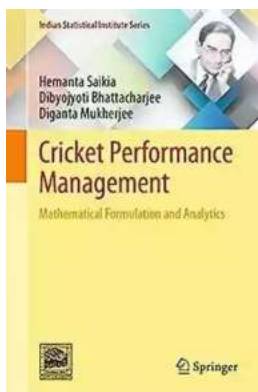
The institute's professors and researchers are renowned for their expertise in various branches of mathematics, statistics, and computer science. They have made significant contributions to the field of mathematical formulation and analytics through their research and publications. ISI's series on mathematical formulation and analytics draws on this wealth of knowledge and aims to empower individuals with practical skills applicable in real-world scenarios.

In a world drowning in data, the ability to extract meaningful insights has never been more critical. The Indian Statistical Institute's Mathematical Formulation and

Analytics series provides participants with the tools and knowledge to navigate the complexities of data analysis and unlock its full potential.

Whether it is solving real-world problems through mathematical modeling or uncovering valuable insights through analytics, ISI equips individuals with the skills to make data-driven decisions and drive innovation. The series serves as a launchpad for individuals looking to embark on a successful career in data science, analytics, and related fields, positioning them at the forefront of the data revolution.

If you are ready to unlock the power of data, join the Indian Statistical Institute's Mathematical Formulation and Analytics series and embark on a journey to transform the way you understand and utilize data.



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This book focuses on the application of data mining techniques in cricket. It provides detailed examples of how data mining can be helpful for decision-making in sports with special reference to cricket, particularly the quantitative features related to Twenty20 cricket, the latest and the most popular format of the

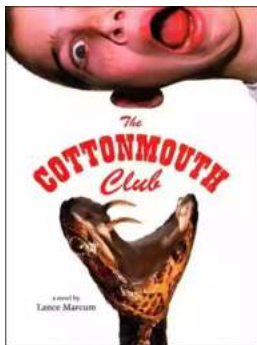
game. The book highlights the performance quantification of cricketers (batsmen, bowlers, all-rounders, and wicket keepers), determining the market valuation of cricketers based on their on-field performances and the effect of age on the performance of the cricketers. It also provides a comprehensive overview of the different aspects of the game where quantitative techniques are beneficial, and highlights the use of statistical and data mining tools in analysing sports-related data and objective decision-making in sports.

The book appeals to a wide readership, including postgraduate students of statistics/mathematics, data analysts, sports management bodies. It also offers data miners, such as researchers in statistics, mathematics, operations research, and computer science ideas for projects.



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