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accounting finance information systems international management marketing organizational management operations research production and operations management and strategic management this volume provides a conceptual and a utilitarian guide to decision making perfect for both researchers and practicing professionals alike data mining can be defined as the process of selection explorationand modelling of large databases in order to discover models andpatterns the increasing availability of data in the currentinformation society has led to the need for valid tools for itsmodelling and analysis data mining and applied statistical methodsare the appropriate tools to extract such knowledge from data applications occur in many different fields including statistics computer science machine learning economics marketing andfinance this book is the first to describe applied data mining methodsin a consistent statistical framework and then show how they canbe applied in practice all the methods described are eithercomputational or of a statistical modelling nature complexprobabilistic models and mathematical tools are not used so thebook is accessible to a wide audience of students and industryprofessionals the second half of the book consists of nine casestudies taken from the author s own work in industry thatdemonstrate how the methods described can be applied to realproblems provides a solid introduction to applied data mining methods ina consistent statistical framework includes coverage of classical multivariate and bayesianstatistical methodology includes many recent developments such as web mining sequential bayesian analysis and memory based reasoning each statistical method described is illustrated with real lifeapplications features a number of detailed case studies based on appliedprojects within industry incorporates discussion on software used in data mining withparticular emphasis on sas supported by a website featuring data sets software andadditional material includes an extensive bibliography and pointers to furtherreading within the text author has many years experience teaching introductory andmultivariate statistics and data mining and working on appliedprojects within industry a valuable resource for advanced undergraduate and graduatestudents of applied statistics data mining computer science andeconomics as well as for professionals working in industry onprojects involving large volumes of data such as in marketing orfinancial risk management to succeed with predictive analytics you must understand it on three levels strategy and management methods and models technology and code this up to the minute reference thoroughly covers all three categories now fully updated this uniquely accessible book will help you use predictive analytics to solve real business problems and drive real competitive advantage if you re new to the discipline it will give you the strong foundation you need to get accurate actionable results if you re already a modeler programmer or manager it will teach you crucial skills you don t yet have unlike competitive books this guide illuminates the discipline through realistic vignettes and intuitive data visualizations not complex math thomas w miller leader of northwestern university s pioneering program in predictive analytics guides you through defining problems identifying data crafting and optimizing models writing effective r code interpreting results and more every chapter focuses on one of today s key applications for predictive analytics delivering skills and knowledge to put models to work and maximize their value reflecting extensive student and instructor feedback this edition adds five classroom tested case studies updates all code for new versions of r explains code behavior more clearly and completely and covers modern data science methods even more effectively all data sets extensive r code and additional examples available for download at ftpress com miller if you want to make the most

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influent wastewater fractions kinetic and stoichiometric coefficients settling velocity etc summarize and critically review the ranges of model parameters reported in literature compare the existing protocols aiming at a systematic organization of the simulation study outline the capabilities of the existing commercial simulators present documented successful case studies of practical model applications as a guide while planning a simulation study the book is organized to provide a general background and some basic definitions then theoretical aspects of modeling and finally the issues important for practical model applications mathematical modelling and computer simulation of activated sludge systems can be used as supplementary material for a graduate level wastewater engineering courses and is useful to a wide audience of researchers and practitioners experienced model users such as consultants trained plant management staff may find the book useful as a reference and as a resource for self guided study visit the iwa waterwiki to read and share material related to this title iwawaterwiki org xwiki bin view articles mathmematicalmodellingandactivatedsludgesystems

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