## Free reading Stochastic models in operations research vol 1 stochastic processes and operating characteristics mcgraw hill series in quantitative methods for management (Read Only)

this volume of a 2 volume set explores the central facts and ideas of stochastic processes illustrating their use in models based on applied and theoretical investigations explores stochastic processes operating characteristics of stochastic systems and stochastic optimization comprehensive in its scope this graduate level text emphasizes the practical importance intellectual stimulation and mathematical elegance of stochastic models this two volume set of texts explores the central facts and ideas of stochastic processes illustrating their use in models based on applied and theoretical investigations they demonstrate the interdependence of three areas of study that usually receive separate treatments stochastic processes operating characteristics of stochastic systems and stochastic optimization comprehensive in its scope they emphasize the practical importance intellectual stimulation and mathematical elegance of stochastic models and are intended primarily as graduate level texts since the 1960s operations research or alternatively management science has become an indispensable tool in scientific management in simple words its goal on the strategic and tactical levels is to aid in decision making and on the operational level automate decision making its tools are algorithms procedures that create and improve solutions to a point at which optimal or at least satisfactory solutions have been found while many texts on the subject emphasize methods the special focus of this book is on the applications of operations research in practice typically a topic is introduced by means of a description of its applications a model is formulated and its solution is presented then the solution is discussed and its implications for decision making are outlined we have attempted to maximize the understanding of the topics by using intuitive reasoning while keeping mathematical notation and the description of techniques to a minimum the exercises are designed to fully explore the material covered in the chapters without resorting to mind numbing repetitions and trivialization in a rapidly developing field like operations research its easy to get overwhelmed by the variety of topics and analytic techniques paul jensen and jonathan bard help you master the expensive field by focusing on the fundamental models and methodologies underlying the practice of operations research bridging the gap between theory and practice the author presents the quantitative tools and models most important to understanding modern operations research you ll come to appreciate the power of or techniques in solving real world problems and applications in your own field you ll learn how to translate complex situations into mathematical models solve models and turn models into solutions this text is designed to bridge the gap between theory and practice by presenting the quantitative tools and models most suited for modern operations research the principal

goal is to give analysts engineers and decision makers a larger appreciation of their roles by defining a common terminology and by explaining the interfaces between the underlying methodologies features divides each subject into methods and models giving you greater flexibility in how you approach the material concise and focused presentation highlights central ideas many examples throughout the text will help you better understand mathematical material industrial engineering has expanded from its origins in manufacturing to transportation health care logistics services and more a common denominator among all these industries and one of the biggest challenges facing decision makers is the unpredictability of systems probability models in operations research provides a comprehensive overview of the probabilistic and stochastic modeling approaches commonly used to capture the randomness in industrial and systems engineering discover the intricate nature of a company s production function and the comprehensive principles of planning operations in this book through practical applications and enriched by numerical examples readers gain essential knowledge of elementary mathematical methods in operations planning the inclusion of the powerful r programming language accompanied by code scripts and real world examples enhances the learning experience blending theory with practice this resource equips readers with the tools necessary to optimize production systems make informed decisions and gain a competitive edge in today s dynamic business landscape it covers all the relevant topics along with the recent developments in the field the book begins with an overview of operations research and then discusses the simplex method of optimization and duality concept along with the deterministic models such as post optimality analysis transportation and assignment models while covering hybrid models of operations research the book elaborates pert programme evaluation and review technique cpm critical path method dynamic programming inventory control models simulation techniques and their applications in mathematical modelling and computer programming it explains the decision theory game theory queueing theory sequencing models replacement and reliability problems information theory and markov processes which are related to stochastic models finally this well organized book describes advanced deterministic models that include goal programming integer programming and non linear programming drawn from a conference honoring gerald l thompson the pioneer of operations research this volume brings together some of the latest writings of major figures in the field the volume is divided into four parts the first part reviews the career and significance of thompson the second concentrates on linear and nonlinear optimization the third looks at network and integer programming and the fourth provides examples of applications oriented research in manufacturing this volume will be an invaluable resource for all scholars and researchers involved in theory and methodology in operations research and management science decision making is an important task no matter the industry operations research as a discipline helps alleviate decision making problems through the extraction of reliable information related to the task at hand in order to come to a viable solution integrating stochastic processes into operations research and management can further aid in the decision making process for industrial and management problems stochastic processes and models in operations research emphasizes mathematical tools and equations relevant for solving complex problems within business and industrial settings this research based publication aims to assist scholars researchers operations managers and graduate level students by providing comprehensive exposure to the concepts trends and technologies relevant to stochastic process modeling to solve operations research problems basic text on deterministic optimization methods techniques of modeling real world

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decision making problems modeling examples that illustrate the use of modeling techniques and a variety of problem classes are presented various types of algorithms with explanations of how each algorithm works and what conclusion can be drawn from its output and a review of matrix algebra and geometry and a chapter on heuristic methods one of the central problems in operations research and management science is how to quantify the effects of uncertainty about the future this the second volume in a series of handbooks is devoted to models where chance events play a major role the thirteen chapters survey topics in applied probability that have been particularly useful in operations research and management science each chapter was written by an expert both in subject matter and in its exposition the chapters fall into four groups the first four cover the fundamentals of stochastic processes and lay the foundation for the following chapters the next three chapters are concerned with methods of getting numbers this includes numerical solution of models parameter estimation for models and simulation of models chapters 8 and 9 describe the fundamentals of dynamic optimization the last four chapters are concerned with the most important structured models in operations research and management science gueues queueing networks inventories and reliability the nature of operations research allocations models solution of linear programming models additional allocation models network models location models scheduling models empirical probability models simple probability models probabilistic decision models markov models queuing models inventory models case studies in operations research appendix index a reference for those working at the interface of operations planning and optimization modeling operations planning mixed integer optimization models blends essential theory and powerful approaches to practical operations planning problems it presents a set of classical optimization models with widespread application in operations planning the most successful companies have operations management at their heart it enables strategy and should be part of boardroom discussions however cranfield research has shown that business strategy barely recognises the world of operations management recognising that operations management needs to be more strategic business operations models is a revolutionary new title that looks at the interrelationship of operations management and strategy in business operations models martin christopher and alan braithwaite identify the characteristics of market leading businesses that have transformed their markets and delivered super performance for their stakeholders it points to the theory gap between strategic thinking and operations and how many high performing businesses arrive at their new operating models as much by chance as judgement unpacking those observations leads to some clearly defined features of winning competitors including eliminating waste leveraging technology and utilising transformative business models business operations models offers a framework for achieving super performance and understanding when and how a company may be able to leverage its capabilities to outperform the book provides detailed international case studies that illustrate how the principles work in practice including apple dell amazon john lewis southwest airlines aldi toyota and many others interactive operations research with maple methods and models has two objectives to provide an accelerated introduction to the computer algebra system maple and more importantly to demonstrate maple s usefulness in modeling and solving a wide range of operations research or problems this book is written in a format that makes it suitable for a one semester course in operations research management science or quantitative methods a number of students in the departments of operations research management science oper ations management industrial and systems engineering applied mathematics and advanced mba

centro journal of the center for puerto rican studiesvolume 24 issue 1 students who are specializing in quantitative methods or operations management will find this text useful experienced researchers and practi tioners of operations research who wish to acquire a guick overview of how maple can be useful in solving or problems will find this an excellent reference maple s mathematical knowledge base now includes calculus linear algebra ordinary and partial differential equations nwnber theory logic graph theory combinatorics statistics and transform methods although maple s main strength lies in its ability to perform symbolic manipulations it also has a substantial knowledge of a large number of numerical methods and can plot many different types of attractive looking two dimensional and three dimensional graphs after almost two decades of continuous improvement of its mathematical capabilities maple can now boast a user base of more than 300 000 academics researchers and students in different areas of mathematics science and engineering contains lectures that emphasize specific areas of operations research and the mathematics used in modeling and solving the related problems this thesis can be divided into two parts in part i we are dealing with the problem of finding optimal time intervals for carrying out routine maintenance works and large projects in such a way that the track possession costs and maintenance costs are minimized in part ii of this thesis we focus on rescheduling of the rolling stock in the passenger railways due to changing circumstances and more precisely on the rolling stock rebalancing problem rsrp the main objectives of this thesis are formulated as follows 1 review the existing literature on maintenance planning in relation with production 2 identify some tactical and operational railway infrastructure maintenance planning problems and develop operations research models for providing decision support investigate the effect of planning railway infrastructure maintenance on the train operation and identify rolling stock planning problems that occur during planned infrastructure maintenance 3 analyze the considered models investigate their computational complexity propose solution methods and test the solutions of the models this book provides an overview of intelligent decision making techniques and discusses their application in production and retail operations manufacturing and retail enterprises have stringent standards for using advanced and reliable techniques to improve decision making processes since these processes have significant effects on the performance of relevant operations and the entire supply chain in recent years researchers have been increasingly focusing attention on using intelligent techniques to solve various decision making problems the opening chapters provide an introduction to several commonly used intelligent techniques such as genetic algorithm harmony search neural network and extreme learning machine the book then explores the use of these techniques for handling various production and retail decision making problems such as production planning and scheduling assembly line balancing and sales forecasting contains lectures that emphasize specific areas of operations research and the mathematics used in modeling and solving the related problems this book provides knowledge and insights on present and future ai applications in operations management presenting tools and decisions in terms of theoretical and empirical models methods and proposed applications provided by publisher this handbook surveys important stochastic problems and models in manufacturing system operations and their stochastic analysis using analytical models to design and control manufacturing systems and their operations entail critical stochastic performance analysis as well as integrated optimization models of these systems topics deal with the areas of facilities planning transportation and material handling systems logistics and supply chain management and integrated productivity and quality models covering stochastic modeling and analysis of manufacturing systems design

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analysis and optimization of manufacturing systems facilities planning transportation and material handling systems analysis production planning scheduling systems management and control analytical approaches to logistics and supply chain management integrated productivity and quality models and their analysis literature surveys of issues relevant in manufacturing systems case studies of manufacturing system operations and analysis today s manufacturing system operations are becoming increasingly complex advanced knowledge of best practices for treating these problems is not always well known the purpose of the book is to create a foundation for the development of stochastic models and their analysis in manufacturing system operations given the handbook nature of the volume introducing basic principles concepts and algorithms for treating these problems and their solutions is the main intent of this handbook readers unfamiliar with these research areas will be able to find a research foundation for studying these problems and systems this important book is by top scholars in supply chain management revenue management and e commerce all of which are grounded in information technologies and consumer demand research the book looks at new selling techniques designed to reach the consumer it provides a complete account of location and layout models production planning models production control models cycle inventory models safety stock models and transportation models a separate chapter on real life situations provides the user with the knowledge of specific areas where the models have been applied in decision making processes the various techniques to solve operations and supply chain management problems are also discussed the text is supported by a large number of illustrative examples exercises and review questions to reinforce the students understanding of the subject matter besides students of mechanical and industrial engineering the book would also be useful to postgraduate students of management this first edition provides interactivity to students by use of state of the art java applets students are shown concepts depicted graphically and are able to manipulate those graphics to simulate real world actions therefore students learn comprehensively as they participate with the text and supporting technology written by a leader in this course the concise and affordable paperback can be used harmoniously with additional teaching materials the book adopts a modeling approach for dealing with a variety of common problems in designing and improving operations students will obtain hands on experience in developing efficient and cost effective solutions to such problems the problem the model inventory models allocation models waiting time models replacement models competitive models testing control and implementation administration of operations research index

Stochastic Models in Operations Research 2004-01-01 this volume of a 2 volume set explores the central facts and ideas of stochastic processes illustrating their use in models based on applied and theoretical investigations explores stochastic processes operating characteristics of stochastic systems and stochastic optimization comprehensive in its scope this graduate level text emphasizes the practical importance intellectual stimulation and mathematical elegance of stochastic models

Stochastic Models in Operations Research: Stochastic optimization 2004-01-01 this two volume set of texts explores the central facts and ideas of stochastic processes illustrating their use in models based on applied and theoretical investigations they demonstrate the interdependence of three areas of study that usually receive separate treatments stochastic processes operating characteristics of stochastic systems and stochastic optimization comprehensive in its scope they emphasize the practical importance intellectual stimulation and mathematical elegance of stochastic models and are intended primarily as graduate level texts

Operations Research 2010-05-17 since the 1960s operations research or alternatively management science has become an indispensable tool in scientific management in simple words its goal on the strategic and tactical levels is to aid in decision making and on the operational level automate decision making its tools are algorithms procedures that create and improve solutions to a point at which optimal or at least satisfactory solutions have been found while many texts on the subject emphasize methods the special focus of this book is on the applications of operations research in practice typically a topic is introduced by means of a description of its applications a model is formulated and its solution is presented then the solution is discussed and its implications for decision making are outlined we have attempted to maximize the understanding of the topics by using intuitive reasoning while keeping mathematical notation and the description of techniques to a minimum the exercises are designed to fully explore the material covered in the chapters without resorting to mind numbing repetitions and trivialization

Operations Research Models and Methods 2002-10-08 in a rapidly developing field like operations research its easy to get overwhelmed by the variety of topics and analytic techniques paul jensen and jonathan bard help you master the expensive field by focusing on the fundamental models and methodologies underlying the practice of operations research bridging the gap between theory and practice the author presents the quantitative tools and models most important to understanding modern operations research you ll come to appreciate the power of or techniques in solving real world problems and applications in your own field you ll learn how to translate complex situations into mathematical models solve models and turn models into solutions this text is designed to bridge the gap between theory and practice by presenting the quantitative tools and models most suited for modern operations research the principal goal is to give analysts engineers and decision makers a larger appreciation of their roles by defining a common terminology and by explaining the interfaces between the underlying methodologies features divides each subject into methods and models giving you greater flexibility in how you approach the material concise and focused presentation highlights central ideas many examples throughout the text will help you better understand mathematical material

<u>Stochastic Models in Operations Research</u> 2000 industrial engineering has expanded from its origins in manufacturing to transportation health care logistics services and more a common denominator among all these industries and one of the biggest challenges facing

decision makers is the unpredictability of systems probability models in operations research provides a comprehensive overview of the probabilistic and stochastic modeling approaches commonly used to capture the randomness in industrial and systems engineering Mathematical Models in Operations Research 1989 discover the intricate nature of a company s production function and the comprehensive principles of planning operations in this book through practical applications and enriched by numerical examples readers gain essential knowledge of elementary mathematical methods in operations planning the inclusion of the powerful r programming language accompanied by code scripts and real world examples enhances the learning experience blending theory with practice this resource equips readers with the tools necessary to optimize production systems make informed decisions and gain a competitive edge in today s dynamic business landscape

Probability Models in Operations Research 2008-08-05 it covers all the relevant topics along with the recent developments in the field the book begins with an overview of operations research and then discusses the simplex method of optimization and duality concept along with the deterministic models such as post optimality analysis transportation and assignment models while covering hybrid models of operations research the book elaborates pert programme evaluation and review technique cpm critical path method dynamic programming inventory control models simulation techniques and their applications in mathematical modelling and computer programming it explains the decision theory game theory queueing theory sequencing models replacement and reliability problems information theory and markov processes which are related to stochastic models finally this well organized book describes advanced deterministic models that include goal programming integer programming and non linear programming

**Programming and Probability Models in Operations Research** 1973 drawn from a conference honoring gerald I thompson the pioneer of operations research this volume brings together some of the latest writings of major figures in the field the volume is divided into four parts the first part reviews the career and significance of thompson the second concentrates on linear and nonlinear optimization the third looks at network and integer programming and the fourth provides examples of applications oriented research in manufacturing this volume will be an invaluable resource for all scholars and researchers involved in theory and methodology in operations research and management science

Introduction to Mathematical Models in Operations Planning 2023-10-30 decision making is an important task no matter the industry operations research as a discipline helps alleviate decision making problems through the extraction of reliable information related to the task at hand in order to come to a viable solution integrating stochastic processes into operations research and management can further aid in the decision making process for industrial and management problems stochastic processes and models in operations research emphasizes mathematical tools and equations relevant for solving complex problems within business and industrial settings this research based publication aims to assist scholars researchers operations managers and graduate level students by providing comprehensive exposure to the concepts trends and technologies relevant to stochastic process modeling to solve operations research problems *Operations Research: Algorithms And Applications* 2010-01-30 basic text on deterministic optimization methods techniques of modeling real world decision making problems modeling examples that illustrate the use of modeling techniques and a variety of problem classes

are presented various types of algorithms with explanations of how each algorithm works and what conclusion can be drawn from its output and a review of matrix algebra and geometry and a chapter on heuristic methods

Operations Research 2009-04-01 one of the central problems in operations research and management science is how to quantify the effects of uncertainty about the future this the second volume in a series of handbooks is devoted to models where chance events play a major role the thirteen chapters survey topics in applied probability that have been particularly useful in operations research and management science each chapter was written by an expert both in subject matter and in its exposition the chapters fall into four groups the first four cover the fundamentals of stochastic processes and lay the foundation for the following chapters the next three chapters are concerned with methods of getting numbers this includes numerical solution of models parameter estimation for models and simulation of models chapters 8 and 9 describe the fundamentals of dynamic optimization the last four chapters are concerned with the most important structured models in operations research and management science queues queueing networks inventories and reliability Stochastic Processes and Models in Operations Research 2016 the nature of operations research allocations models solution of linear programming models additional allocation models network models location models scheduling models empirical probability models simple probability models probabilistic decision models markov models queuing models inventory models case studies in operations research appendix index

<u>Operations Research</u> 1995 a reference for those working at the interface of operations planning and optimization modeling operations planning mixed integer optimization models blends essential theory and powerful approaches to practical operations planning problems it presents a set of classical optimization models with widespread application in operations planning the

Stochastic Models 1990-01-01 most successful companies have operations management at their heart it enables strategy and should be part of boardroom discussions however cranfield research has shown that business strategy barely recognises the world of operations management recognising that operations management needs to be more strategic business operations models is a revolutionary new title that looks at the interrelationship of operations management and strategy in business operations models martin christopher and alan braithwaite identify the characteristics of market leading businesses that have transformed their markets and delivered super performance for their stakeholders it points to the theory gap between strategic thinking and operations and how many high performing businesses arrive at their new operating models as much by chance as judgement unpacking those observations leads to some clearly defined features of winning competitors including eliminating waste leveraging technology and utilising transformative business models business operations models offers a framework for achieving super performance and understanding when and how a company may be able to leverage its capabilities to outperform the book provides detailed international case studies that illustrate how the principles work in practice including apple dell amazon john lewis southwest airlines aldi toyota and many others

**Introduction to Operations Research Models** 1977 interactive operations research with maple methods and models has two ob jectives to provide an accelerated introduction to the computer algebra system maple and more importantly to demonstrate maple s usefulness in modeling and solving a wide range of operations research or problems this book is written in a format that makes it

suitable for a one semester course in operations research management science or quantitative methods a nwnber of students in the departments of operations research management science oper ations management industrial and systems engineering applied mathematics and advanced mba students who are specializing in quantitative methods or operations management will find this text useful experienced researchers and practi tioners of operations research who wish to acquire a quick overview of how maple can be useful in solving or problems will find this an excellent reference maple s mathematical knowledge base now includes calculus linear algebra ordinary and partial differential equations nwnber theory logic graph theory combinatorics statistics and transform methods although maple s main strength lies in its ability to perform symbolic manipulations it also has a substantial knowledge of a large nwnber of nwnerical methods and can plot many different types of attractive looking two dimensional and three dimensional graphs after almost two decades of continuous improvement of its mathematical capabilities maple can now boast a user base of more than 300 000 academics researchers and students in different areas of mathematics science and engineering

*Operations Planning* 2014-09-18 contains lectures that emphasize specific areas of operations research and the mathematics used in modeling and solving the related problems

Introduction to Stochastic Models in Operations Research 1990-03 this thesis can be divided into two parts in part i we are dealing with the problem of finding optimal time intervals for carrying out routine maintenance works and large projects in such a way that the track possession costs and maintenance costs are minimized in part ii of this thesis we focus on rescheduling of the rolling stock in the passenger railways due to changing circumstances and more precisely on the rolling stock rebalancing problem rsrp the main objectives of this thesis are formulated as follows 1 review the existing literature on maintenance planning in relation with production 2 identify some tactical and operational railway infrastructure maintenance planning problems and develop operations research models for providing decision support investigate the effect of planning railway infrastructure maintenance on the train operation and identify rolling stock planning problems that occur during planned infrastructure maintenance 3 analyze the considered models investigate their computational complexity propose solution methods and test the solutions of the models

Probability Models in Operations Research - Solutions Manual 2008-03-31 this book provides an overview of intelligent decision making techniques and discusses their application in production and retail operations manufacturing and retail enterprises have stringent standards for using advanced and reliable techniques to improve decision making processes since these processes have significant effects on the performance of relevant operations and the entire supply chain in recent years researchers have been increasingly focusing attention on using intelligent techniques to solve various decision making problems the opening chapters provide an introduction to several commonly used intelligent techniques such as genetic algorithm harmony search neural network and extreme learning machine the book then explores the use of these techniques for handling various production and retail decision making problems such as production planning and scheduling assembly line balancing and sales forecasting

**Problems and Models in Operations Management** 1974 contains lectures that emphasize specific areas of operations research and the mathematics used in modeling and solving the related problems

**Selected Methods and Models in Military Operations Research** 1972 this book provides knowledge and insights on present and future ai applications in operations management presenting tools and decisions in terms of theoretical and empirical models methods and proposed applications provided by publisher

Computer Models in Operations Management 1972 this handbook surveys important stochastic problems and models in manufacturing system operations and their stochastic analysis using analytical models to design and control manufacturing systems and their operations entail critical stochastic performance analysis as well as integrated optimization models of these systems topics deal with the areas of facilities planning transportation and material handling systems logistics and supply chain management and integrated productivity and quality models covering stochastic modeling and analysis of manufacturing systems design analysis and optimization of manufacturing systems facilities planning transportation and material handling systems analysis production planning scheduling systems management and control analytical approaches to logistics and supply chain management integrated productivity and quality models and their analysis literature surveys of issues relevant in manufacturing systems case studies of manufacturing system operations and analysis today s manufacturing system operations are becoming increasingly complex advanced knowledge of best practices for treating these problems is not always well known the purpose of the book is to create a foundation for the development of stochastic models and their analysis in manufacturing system operations given the handbook nature of the volume introducing basic principles concepts and algorithms for treating these problems and their solutions is the main intent of this handbook readers unfamiliar with these research areas will be able to find a research foundation for studying these problems and systems

**Business Operations Models** 2015-05-03 this important book is by top scholars in supply chain management revenue management and e commerce all of which are grounded in information technologies and consumer demand research the book looks at new selling techniques designed to reach the consumer

Selected Methods and Models in Military Operations Research 1972 it provides a complete account of location and layout models production planning models production control models cycle inventory models safety stock models and transportation models a separate chapter on real life situations provides the user with the knowledge of specific areas where the models have been applied in decision making processes the various techniques to solve operations and supply chain management problems are also discussed the text is supported by a large number of illustrative examples exercises and review questions to reinforce the students understanding of the subject matter besides students of mechanical and industrial engineering the book would also be useful to postgraduate students of management

<u>Selected Methods and Models in Military Operations Research</u> 1972 this first edition provides interactivity to students by use of state of the art java applets students are shown concepts depicted graphically and are able to manipulate those graphics to simulate real world actions therefore students learn comprehensively as they participate with the text and supporting technology written by a leader in this course the concise and affordable paperback can be used harmoniously with additional teaching materials the book adopts a modeling approach for dealing with a variety of common problems in designing and improving operations students will obtain hands on experience

in developing efficient and cost effective solutions to such problems

**Interactive Operations Research with Maple** 2000-07-19 the problem the model inventory models allocation models waiting time models replacement models competitive models testing control and implementation administration of operations research index

**Significant Dust Dipsersion Models for Mining Operations** 2005

Operations Research Mathematics and Models 2014-05-10

Operations research models for scheduling railway infrastructure maintenance 2009

**Intelligent Decision-making Models for Production and Retail Operations** 2016-06-27

**Operations Research Mathematics and Models** 1981

Intelligent Systems in Operations: Methods, Models and Applications in the Supply Chain 2010-03-31

Student's Guide to Operations Research 1986

Handbook of Stochastic Models and Analysis of Manufacturing System Operations 2013-05-17

Consumer-Driven Demand and Operations Management Models 2009-06-02

Quantitative Models In Operations And Supply Chian Management, 1/e 2010

Interactive Models for Operations and Supply Chain Management 2007

*Introduction to Operations Research* 1957

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Tutorials in Operations Research 2006

Use of Computer-Operated Models as Decision-Support Tools in Operation and Management of Irrigation Systems: Sri Lankan Experience

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