Free reading Linear programming foundations and extensions international series in operations research management science [PDF]

although several books or monographs on multiobjective optimization under uncertainty have been published there seems to be no book which starts with an introductory chapter of linear programming and is designed to incorporate both fuzziness and randomness into multiobjective programming in a unified way in this book five major topics linear programming multiobjective programming fuzzy programming stochastic programming and fuzzy stochastic programming are presented in a comprehensive manner especially the last four topics together comprise the main characteristics of this book and special stress is placed on interactive decision making aspects of multiobjective programming for human centered systems in most realistic situations under fuzziness and or randomness organization of each chapter is briefly summarized as follows chapter 2 is a concise and condensed description of the theory of linear programming and its algorithms chapter 3 discusses fundamental notions and methods of multiobjective linear programming and concludes with interactive multiobjective linear programming in chapter 4 starting with clear explanations of fuzzy linear programming and fuzzy multiobjective linear programming interactive fuzzy multiobjective linear programming is presented chapter 5 gives detailed explanations of fundamental notions and methods of stochastic programming including two stage programming and chance constrained programming chapter 6 develops several interactive fuzzy programming approaches to multiobjective stochastic programming problems applications to purchase and transportation planning for food retailing are considered in chapter 7 the book is self contained because of the three appendices and answers to problems appendix a contains a brief summary of the topics from linear algebra pertinent results from nonlinear programming are summarized in appendix b appendix c is a clear explanation of the excel solver one of the easiest ways to solve optimization problems through the use of simple examples of linear and nonlinear programming first published in 1987 agricultural extension worldwide presents an international perspective on agricultural extension and highlights extension as an integral function of agricultural development agricultural extension is one of the largest nonformal problem solving educational systems in the world it is generally concerned with transferring knowledge and research to farmers but may include services to other target audiences such as farm families and rural youth as well as serve for developing rural community resources in sixteen chapters various major systems of extension are discussed along with factors that make for their success or failure including the linkages required and the policy and financial supports necessary to make them effective this book is a must read for scholars and researchers of agricultural economics agricultural policy and agriculture in general this third edition introduces the latest theory and applications in optimization it emphasizes constrained optimization beginning with linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization you ll discover a host of practical business applications as well as non business applications with its focus on solving practical problems the book features free c programs to implement the major algorithms covered the book s accompanying website includes the c programs java tools and new online instructional tools and exercises this book provides an introduction to incorporating preference information in data envelopment analysis dea with a special emphasis in value efficiency analysis in addition to theoretical considerations numerous illustrative examples are included hence the book can be used as a teaching text as well only a modest mathematical background is needed to understand the main principles the only prerequisites are a familiarity with linear algebra especially matrix calculus b knowledge of the simplex method and c familiarity with the use of computer software the book is organized as follows chapter 1 provides motivation and introduces the basic concepts chapter 2 provides the basic ideas and models of data envelopment analysis the efficient frontier and production possibility set concepts play an important role in all considerations that s why these concepts are considered more closely in chapter 3 since the approaches introduced in this study are inspired by multiple objective linear programming the basic concepts of this field are reviewed in chapter 4 chapter 5 also compares and contrasts data envelopment analysis and multiple objective linear programming providing some cornerstones for approaches presented later in the book chapter 6 discusses the traditional approaches to take into account preference information in dea in chapter 7 value efficiency is introduced and chapter 8 discusses practical aspects some extensions are presented in chapter 9 and in chapter 10 value efficiency is extended to cover the case when a production possibility set is

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not convex three implemented applications are reviewed in chapter 11 this book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas covering both theoretical and practical aspects some papers investigate topics such as abductive reasoning and negation some works discuss how to enhance the expressive power of logic programming by introducing constraints sets and integration with functional programming other papers deal with the structuring of knowledge into modules taxonomies and objects withthe aim of extending logic programming toward software engineering applications a section is devoted to papers concentrating on proof theory and inspired by gentzen style sequent or natural deduction systems topics such as concurrency are considered to enhance the expressive power of logic languages finally some papers mainly concernimplementation techniques for some of these logic programming extensions this book introduces and discusses the self adjoint extension problem for symmetric operators on hilbert space it presents the classical von neumann and krein vishik birman extension schemes both in their modern form and from a historical perspective and provides a detailed analysis of a range of applications beyond the standard pedagogical examples the latter are indexed in a final appendix for the reader s convenience self adjointness of operators on hilbert space representing quantum observables in particular quantum hamiltonians is required to ensure real valued energy levels unitary evolution and more generally a self consistent theory physical heuristics often produce candidate hamiltonians that are only symmetric their extension to suitably larger domains of self adjointness when possible amounts to declaring additional physical states the operator must act on in order to have a consistent physics and distinct self adjoint extensions describe different physics realising observables self adjointly is the first fundamental problem of quantum mechanical modelling the discussed applications concern models of topical relevance in modern mathematical physics currently receiving new or renewed interest in particular from the point of view of classifying self adjoint realisations of certain hamiltonians and studying their spectral and scattering properties the analysis also addresses intermediate technical questions such as characterising the corresponding operator closures and adjoints applications include hydrogenoid hamiltonians dirac coulomb hamiltonians models of geometric quantum confinement and transmission on degenerate riemannian manifolds of grushin type and models of few body quantum particles with zero range interaction graduate students and non expert readers will benefit from a preliminary mathematical chapter collecting all the necessary pre requisites on symmetric and self adjoint operators on hilbert space including the spectral theorem and from a further appendix presenting the emergence from physical principles of the requirement of self adjointness for observables in quantum mechanics the current jurisdictional status of the mediterranean sea is remarkable nearly 50 per cent of the mediterranean waters are high seas and therefore beyond the jurisdiction of coastal states this situation means that there are no points in the mediterranean sea where the coasts of two states would be more than 400 nautical miles apart such a legal situation generally prevents coastal states from adopting and enforcing their laws on the mediterranean high seas in respect of many important fields such as the protection and preservation of the marine environment as well as the conservation of marine living resources the jurisdictional landscape of the adriatic sea as a sub sea and sub region of the mediterranean is even more interesting croatia has proclaimed an ecological and fisheries protection zone slovenia has proclaimed a zone of ecological protection while italy has adopted a framework law for the proclamation of its zone of ecological protection without proclaiming its regime in the adriatic it is noteworthy that if all mediterranean and adriatic states would proclaim an exclusive economic zone eez there would not be a single stretch of high seas left in the entire mediterranean sea both the adriatic and mediterranean fall in the category of enclosed or semi enclosed seas regulated by part ix of the united nations convention on the law of the sea unclos this book assesses the legal nature of part ix of unclos and discusses potential benefits of the extension of coastal state jurisdiction proclamation of eezs and or similar sui generis zones particularly in light of the recent calls towards an integrated and holistic approach to the management of different activities in the mediterranean sea it examines the actual or potential extension of coastal state jurisdiction in the adriatic sea against the background of similar extensions elsewhere in the mediterranean and against the background of relevant eu policies it additionally explores whether part ix of unclos imposes any duties of cooperation in relation to the extension of coastal state jurisdiction in enclosed or semi enclosed seas and puts forward practical suggestions as to how the issue of extension of coastal state jurisdiction could be approached in a way which would enhance states existing cooperation and improve the overall governance in the mediterranean and adriatic seas this book will be of interest to policymakers and academics and students of international law and the law of the sea 農業の変革と発展は 開発途上国の10億人以上の小規模農家をはじめ農村に 暮らす人々の生活にとって非常に重要である農業改良普及は こうした変革 において重要な役割を果たし アドバイス 情報提供 イノベーション 関係の仲介 促進 リスクや災害への対応などにより農民を支援することがで きる 本書は 農業改良普及の世界的な概要を示し 国および地域レベルの 改良普及システムを評価 比較し 以下の分野における改良普及アプローチ のパフォーマンスを検証し

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ている 本書は 一次データと二次データの両方 を用いて 共通かつ包括的な方法を適用することにより 改良普及に関する 研究に寄与するものである 改良普及制度の評価には 事例や地域間での比 較を可能にする ベストフィット アプローチ という枠組みがある その 枠組みは 成果を向上させ 財政的な持続可能性を高めより大きな規模を 達成するためのガバナンス 能力 管理 助言方法などの改革を支援する手 がかりとなる 本書は 政策立案者 農業改良普及員 その他農業開発に関わる人々にとって 貴重な資料となると確信する this book investigates the present human and financial resource situation of agricultural extension organizations of 114 countries it will be of great use to the extension researchers students planners policy makers and department of agriculture and agriculture ministries of developing countries about the research for development r4d learning series the wle research for development r4d learning series is one of the main publication channels of the program papers within the series present new thinking ideas and perspectives from wle research with a focus on the implications for development and research into use papers are based on finalized research or emerging research results in both instances papers are peer reviewed and findings are based on sound scientific evidence and data though these might be incomplete at the time of publication the series features findings from wle research that emphasize a healthy functioning ecosystem as being a prerequisite to sustainable intensification resilience of food systems and human well being the series brings together multi disciplinary research global synthesis and findings that have implications for development practitioners and decision makers at various levels this publication contains twelve modules which cover a selection of major reform measures in agricultural extension being promulgated and implemented internationally such as linking farmers to markets making advisory services more demand driven promoting pluralistic advisory systems and enhancing the role of advisory services within agricultural innovation systems the reform issues consider the changing roles of the various public private and non governmental providers and highlights the collaboration required to create synergies for more efficient and effective high quality services responding to the needs and demands of smallholder farmers the modules draw on reform experiences worldwide and provide an introduction definitions and a discussion for each specific reform measure as well as case studies tools exercises and a reference list the reform topics are envisaged for policy makers management and senior staff of institutions providing agricultural and rural advisory services it can also be very useful for students studying agriculture rural development and extension in particular this is a substantially updated version of the 2009 publication of the same title but with only nine modules these nine modules were restructured and up dated and three modules were added the layout of the modules changed to allow a better overview for the reader deftly balancing theory and application this book stands out in its coverage of the derivation of the glm families and their foremost links this edition has new sections on discrete response models including zero truncated zero inflated censored and hurdle count models as well as heterogeneous negative binomial and more agricultural extension is in a great transition worldwide the demand for public extension reform is greater than ever before the agriculture knowledge infrastructure is evolving in a big way with the emergence of pluralistic extension actors and innovations to cater the needs of the farmethis book is an attempt to document the past experiences and recent developments in the agriculture knowledge information systems the compilation of 14 country s such as afghanistan benin cote d ivoire ghana india iran mozambique nepal peru philippines trinidad and tobago and zimbabwe is intended to document the experience of extension systems the fourteen country s highlight the worldwide agricultural extension reform measures decentralization privatization demand driven and cost recovery approaches institutional pluralism public private and ngos and innovations farmer to farmer extension participatory and self help group shg approaches and ict initiatives the agricultural extension students academicians scientist practitioners administrators and policy makers will find this compilation of extension experiences from the fourteen countries relevant for designing future reforms advancing pluralistic extension system and also to integrating innovations in their extension approaches

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Linear and Multiobjective Programming with Fuzzy Stochastic Extensions 2013-11-29 although several books or monographs on multiobjective optimization under uncertainty have been published there seems to be no book which starts with an introductory chapter of linear programming and is designed to incorporate both fuzziness and randomness into multiobjective programming in a unified way in this book five major topics linear programming multiobjective programming fuzzy programming stochastic programming and fuzzy stochastic programming are presented in a comprehensive manner especially the last four topics together comprise the main characteristics of this book and special stress is placed on interactive decision making aspects of multiobjective programming for human centered systems in most realistic situations under fuzziness and or randomness organization of each chapter is briefly summarized as follows chapter 2 is a concise and condensed description of the theory of linear programming and its algorithms chapter 3 discusses fundamental notions and methods of multiobjective linear programming and concludes with interactive multiobjective linear programming in chapter 4 starting with clear explanations of fuzzy linear programming and fuzzy multiobjective linear programming interactive fuzzy multiobjective linear programming is presented chapter 5 gives detailed explanations of fundamental notions and methods of stochastic programming including two stage programming and chance constrained programming chapter 6 develops several interactive fuzzy programming approaches to multiobjective stochastic programming problems applications to purchase and transportation planning for food retailing are considered in chapter 7 the book is self contained because of the three appendices and answers to problems appendix a contains a brief summary of the topics from linear algebra pertinent results from nonlinear programming are summarized in appendix b appendix c is a clear explanation of the excel solver one of the easiest ways to solve optimization problems through the use of simple examples of linear and nonlinear programming

Agricultural Extension Worldwide 2022-03-29 first published in 1987 agricultural extension worldwide presents an international perspective on agricultural extension and highlights extension as an integral function of agricultural development agricultural extension is one of the largest nonformal problem solving educational systems in the world it is generally concerned with transferring knowledge and research to farmers but may include services to other target audiences such as farm families and rural youth as well as serve for developing rural community resources in sixteen chapters various major systems of extension are discussed along with factors that make for their success or failure including the linkages required and the policy and financial supports necessary to make them effective this book is a must read for scholars and researchers of agricultural economics agricultural policy and agriculture in general

Linear Programming 2007-10-23 this third edition introduces the latest theory and applications in optimization it emphasizes constrained optimization beginning with linear programming and then proceeding to convex analysis network flows integer programming quadratic programming and convex optimization you ll discover a host of practical business applications as well as non business applications with its focus on solving practical problems the book features free c programs to implement the major algorithms covered the book s accompanying website includes the c programs java tools and new online instructional tools and exercises

Veterans' Programs Extension Act of 1978 1979 this book provides an introduction to incorporating preference information in data envelopment analysis dea with a special emphasis in value efficiency analysis in addition to theoretical considerations numerous illustrative examples are included hence the book can be used as a teaching text as well only a modest mathematical background is needed to understand the main principles the only prerequisites are a familiarity with linear algebra especially matrix calculus b knowledge of the simplex method and c familiarity with the use of computer software the book is organized as follows chapter 1 provides motivation and introduces the basic concepts chapter 2 provides the basic ideas and models of data envelopment analysis the efficient frontier and production possibility set concepts play an important role in all considerations that s why these concepts are considered more closely in chapter 3 since the approaches introduced in this study are inspired by multiple objective linear programming the basic concepts of this field are reviewed in chapter 4 chapter 5 also compares and contrasts data envelopment analysis and multiple objective linear programming providing some cornerstones for approaches presented later in the book chapter 6 discusses the traditional approaches to take into account preference information in dea in chapter 7 value efficiency is introduced and chapter 8 discusses practical aspects some extensions are presented in chapter 9 and in chapter 10 value efficiency is extended to cover the case when a production possibility set is not convex three implemented applications are reviewed in chapter 11

Extension of Data Envelopment Analysis with Preference Information 2015-01-02 this book contains papers which investigate how to extend logic programming toward the artificial intelligence and software engineering areas covering both theoretical and practical aspects some papers investigate topics such as abductive reasoning and negation some works discuss how to enhance the expressive power of logic programming by introducing constraints sets and integration with functional programming other papers deal with the structuring of knowledge into modules taxonomies and objects withthe aim of extending logic programming toward software engineering applications a section is devoted to papers concentrating on proof theory and inspired by gentzen style sequent or natural deduction systems topics such as concurrency are considered to enhance the expressive power of logic languages finally some papers mainly concernimplementation techniques for some of these logic programming extensions

Extensions of Logic Programming 1993-02-12 this book introduces and discusses the self adjoint extension problem for symmetric operators on hilbert space it presents the classical von neumann and krein vishik birman extension schemes both in their modern form and from a historical perspective and provides a detailed analysis of a range of applications beyond the standard pedagogical examples the latter are indexed in a final appendix for the reader s convenience self adjointness of operators on hilbert space representing quantum observables in particular quantum hamiltonians is required to ensure real valued energy levels unitary evolution and more generally a self consistent theory physical heuristics often produce candidate hamiltonians that are only symmetric their extension to suitably larger domains of self adjointness when possible amounts to declaring additional physical states the operator must act on in order to have a consistent physics and distinct self adjoint extensions describe different physics realising observables self adjointly is the first fundamental problem of quantum mechanical modelling the discussed applications concern models of topical relevance in modern mathematical physics currently receiving new or renewed interest in particular from the point of view of classifying self adjoint realisations of certain hamiltonians and studying their spectral and scattering properties the analysis also addresses intermediate technical questions such as characterising the corresponding operator closures and adjoints applications include hydrogenoid hamiltonians dirac coulomb hamiltonians models of geometric quantum confinement and transmission on degenerate riemannian manifolds of grushin type and models of few body quantum particles with zero range interaction graduate students and non expert readers will benefit from a preliminary mathematical chapter collecting all the necessary pre requisites on symmetric and self adjoint operators on hilbert space including the spectral theorem and from a further appendix presenting the emergence from physical principles of the requirement of self adjointness for observables in quantum mechanics

Self-Adjoint Extension Schemes and Modern Applications to Quantum Hamiltonians 2023-04-04 the current jurisdictional status of the mediterranean sea is remarkable nearly 50 per cent of the mediterranean waters are high seas and therefore beyond the jurisdiction of coastal states this situation means that there are no points in the mediterranean sea where the coasts of two states would be more than 400 nautical miles apart such a legal situation generally prevents coastal states from adopting and enforcing their laws on the mediterranean high seas in respect of many important fields such as the protection and preservation of the marine environment as well as the conservation of marine living resources the jurisdictional landscape of the adriatic sea as a sub sea and sub region of the mediterranean is even more interesting croatia has proclaimed an ecological and fisheries protection zone slovenia has proclaimed a zone of ecological protection while italy has adopted a framework law for the proclamation of its zone of ecological protection without proclaiming its regime in the adriatic it is noteworthy that if all mediterranean and adriatic states would proclaim an exclusive economic zone eez there would not be a single stretch of high seas left in the entire mediterranean sea both the adriatic and mediterranean fall in the category of enclosed or semi enclosed seas regulated by part ix of the united nations convention on the law of the sea unclos this book assesses the legal nature of part ix of unclos and discusses potential benefits of the extension of coastal state jurisdiction proclamation of eezs and or similar sui generis zones particularly in light of the recent calls towards an integrated and holistic approach to the management of different activities in the mediterranean sea it examines the actual or potential extension of coastal state jurisdiction in the adriatic sea against the background of similar extensions elsewhere in the mediterranean and against the background of relevant eu policies it additionally explores whether part ix of unclos imposes any duties of cooperation in relation to the extension of coastal state jurisdiction in enclosed or semi enclosed seas and puts forward practical suggestions as to how the issue of extension of coastal state jurisdiction could be approached in a way which would enhance states existing cooperation and improve the overall governance in the mediterranean and adriatic seas this book will be of interest to policymakers and academics and students of international law and the law of the

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Reports Received by Division of Technical Information Extension 2013-12-04 農業の変革と発展は 開発途上国の10億人以上の小規模農家をはじめ農村に 暮らす人々の生活にとって非常に重要である農業改良普及は こうした変革 において重要な役割を果たし アドバイス 情報提供 イノベーション 関係の仲介 促進 リスクや災害への対応などにより農民を支援することがで きる 本書は 農業改良普及の世界的な概要を示し 国および地域レベルの 改良普及システムを評価 比較し 以下の分野における改良普及アプローチ のパフォーマンスを検証している 本書は一次データと二次データの両方 を用いて 共通かつ包括的な方法を適用することにより 改良普及に関する 研究に寄与するものである 改良普及制度の評価には 事例や地域間での比 較を可能にする ベストフィット アプローチ という枠組みがある その 枠組みは 成果を向上させ 財政的な持続可能性を高め より大きな規模を達成するためのガバナンス 能力 管理 助言方法などの改革を支援する手 がかりとなる 本書は 政策立案者 農業改良普及員 その他農業開発に関わる人々にとって 貴重な資料となると確信する

The Extension of Coastal State Jurisdiction in Enclosed or Semi-Enclosed Seas 2023-02-01 this book investigates the present human and financial resource situation of agricultural extension organizations of 114 countries it will be of great use to the extension researchers students planners policy makers and department of agriculture and agriculture ministries of developing countries

Agricultural extension: Global status and performance in selected countries [in Japanese] 1963 about the research for development r4d learning series the wle research for development r4d learning series is one of the main publication channels of the program papers within the series present new thinking ideas and perspectives from wle research with a focus on the implications for development and research into use papers are based on finalized research or emerging research results in both instances papers are peer reviewed and findings are based on sound scientific evidence and data though these might be incomplete at the time of publication the series features findings from wle research that emphasize a healthy functioning ecosystem as being a prerequisite to sustainable intensification resilience of food systems and human well being the series brings together multi disciplinary research global synthesis and findings that have implications for development practitioners and decision makers at various levels

Protocol Modifying and Supplementing the Extension to the Netherlands Antilles of the Income Tax Convention with the Netherlands : Message from the President of the United States Transmitting the Protocol, Signed at the Hague on October 23, 1963, Modifying and Supplementing the Extension to the Netherlands Antilles of the Convention Between the United States of America and the Kingdom of the Netherlands for the Avoidance of Double Taxation and the Prevention of Fiscal Evasion with Respect to Taxes on Income and Certain Other Taxes 1949 this publication contains twelve modules which cover a selection of major reform measures in agricultural extension being promulgated and implemented internationally such as linking farmers to markets making advisory services more demand driven promoting pluralistic advisory systems and enhancing the role of advisory services within agricultural innovation systems the reform issues consider the changing roles of the various public private and non governmental providers and highlights the collaboration required to create synergies for more efficient and effective high quality services responding to the needs and demands of smallholder farmers the modules draw on reform experiences worldwide and provide an introduction definitions and a discussion for each specific reform measure as well as case studies tools exercises and a reference list the reform topics are envisaged for policy makers management and senior staff of institutions providing agricultural and rural advisory services it can also be very useful for students studying agriculture rural development and extension in particular this is a substantially updated version of the 2009 publication of the same title but with only nine modules these nine modules were restructured and up dated and three modules were added the layout of the modules changed to allow a better overview for the reader

Extension of Reciprocal Trade Agreements Act 2004 deftly balancing theory and application this book stands out in its coverage of the derivation of the glm families and their foremost links this edition has new sections on discrete response models including zero truncated zero inflated censored and hurdle count models as well as heterogeneous negative binomial and more

Agricultural Research and Extension Systems 1965 agricultural extension is in a great transition worldwide the demand for public extension reform is greater than ever before the agriculture knowledge infrastructure is evolving in a big way with the emergence of pluralistic extension actors and innovations to cater the needs of the farmethis book is an attempt to document the past experiences and recent developments in the agriculture knowledge information systems the compilation of 14 country s such as afghanistan benin cote d ivoire ghana india iran mozambique nepal peru philippines trinidad and tobago and zimbabwe is intended to document the experience of extension systems the fourteen country s highlight the worldwide agricultural extension reform measures decentralization privatization demand driven and cost recovery approaches institutional pluralism public private and ngos and innovations farmer to farmer extension participatory and self help group shg approaches and ict initiatives the agricultural extension students academicians scientist practitioners administrators and policy makers will find this compilation of extension experiences from the fourteen countries relevant for

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designing future reforms advancing pluralistic extension system and also to integrating innovations in their extension approaches
Serial Publications Indexed in Bibliography of Agriculture 1945
Library List 1999
1945 Extension of Reciprocal Trade Agreements Act 1951
Miocene Extension and Post-Miocene Transpression Offshore of South-central California 2015
The Impact of Agricultural Extension and Roads on Poverty and Consumption Growth in Fifteen Ethiopian Villages 1948
Trade Agreements Extension Act of 1951 1945
Reauthorization of the Satellite Television Extension and Localism Act 2008
Extension Service Review 1990
1945 Extension of Reciprocal Trade Agreements Act: Hearings, Apr. 18-May 14, 1945 2002
Reforming the Agricultural Extension System in India: What Do We Know About What Works Where and Why? 1988
Formulation of the 1990 Farm Bill: Research, teaching, and extension programs 2009
BAR International Series 2020-04-01
Community water management and agricultural extension services 1991
Extension Review 2007
U.S. Securities Law for International Financial Transactions and Capital Markets 1973
Agricultural extension in transition worldwide 2007
A Cross-cutting Analysis of Agricultural Research, Extension, and Education (AG REE) in AID-assisted LAC Countries: Technical report 2003
Generalized Linear Models and Extensions, Second Edition 2008-01-01
Extension of the Renegotiation Act 1976
How to make Agricultural Extension Demand Driven? The Case of India's Agricultural Extension Policy 2002
rural extension services 1953
Concepts and Practices in Agricultural Extension in Developing Countries 2008
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The British National Bibliography
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