

## Project Management A Systems Approach To Planning Scheduling And Controlling By Kerzner Harold 11th Eleventh Edition 2182013

One semester, Jr/Sr/Grad course in systems analysis and design, or capstone course in MIS departments where students work on a project or extensive case. McLeod and Jordan's text is ideal for courses where student teams develop and implement software systems in real organizations, or where students develop software to solve problems in written cases. The text is organized into nine chapters and eight supporting technical modules: the chapters provide a unique, thorough coverage of the entire system development life cycle (SDLC), and a strong foundation in systems concepts and systems methodologies, while the technical modules provide the tools students need to implement and apply the concepts. The goal of the text is to provide a strong foundation of the concepts, with emphasis on the later phases of actual implementation and design, providing the methodologies and tools necessary to complete a systems project in a real organization, including installation of operational software. It has been successfully class-tested by over 400 students.

Project Management Project Management Technology Planning the Project The Project Schedule The Project Budget Project Control Status Reporting Engineering Materials Management Construction Management Subcontract Administration Commissioning the Facility Project Completion The Project Manager's Role as a Manager Future Directions To many program, project, or construction managers, a complex project seems to be a labyrinth with many hidden dangers. This book is a guide through that labyrinth. It explains best practices and provides insight so they cannot only identify hidden dangers but also effectively manage the construction process to either mitigate or eliminate these risks. The book presents a systems-based approach to construction project management that can facilitate a greater understanding of the complexity inherent in large construction projects and how that complexity can be effectively managed. The systems approach permits the onsite construction project manager to take a complex construction project, break it down into manageable pieces, and ensure that all systems are in alignment with the original goal of the project. This approach combines industrial engineering, project management, and finance into a unified approach for effective management of complex construction projects, ranging from a power plant to a highway project. The book explains how to manage construction projects successfully through an approach based on the three following systems: Project Management System Work Management System Quality Management System The problem with complex programs and projects is that many managers are only equipped with a knowledge of project management. A system for construction is a collection of many processes effectively working together to produce a specific deliverable, which is usually defined in the program or project's contract. This system has a series of specific inputs and outputs, which are what the customer expects from the company or companies performing the work. This book develops checklists based on these inputs and outputs, which managers can use when first arriving onsite, and provides a "nuts and bolts" approach for managing a complex construction project onsite. The author shares valuable lessons learned during a career of more than thirty years of working on various construction sites around the world. These lessons learned are filled with valuable information to aid readers become more effective as a program, project, or construction manager of complex construction projects.

Project management is an essential life and workplace skill that everyone must develop. Following the popular style and format of other textbooks by Stewart Clegg, this brand new co-authored textbook on project management provides a much needed European perspective to the subject. Drawing on the latest research and practice, the authors guide students on an active learning journey through the project lifespan, promoting a critical and reflexive approach to studying project management, as well as one that creates value for all project stakeholders and emphasizes people and not just process. Case studies and examples discussed in the text cover a wide range of projects from large to smaller across different industries and sectors, both public and private, including: megaprojects (HS2); mega events (Olympics); political projects (Brexit); health-related project implementation (LEAN); tech-related projects (Google); building and restoration projects (housing/Sagrada Familia); and arts and cultural projects (European Capital of Culture). Incorporating a host of learning features both in chapters and via the supporting online resources, this textbook is essential reading for all students/managers completing a course unit in project management at either undergraduate or postgraduate level.

The landmark project management reference, now in a new edition Now in a Tenth Edition, this industry-leading project management "bible" aligns its streamlined approach to the latest release of the Project Management Institute's Project Management Body of Knowledge (PMI®'s PMBOK® Guide), the new mandatory source of training for the Project Management Professional (PMP®) Certification Exam. This outstanding edition gives students and professionals a profound understanding of project management with insights from one of the best-known and respected authorities on the subject. From the intricate framework of organizational behavior and structure that can determine project success to the planning, scheduling, and controlling processes vital to effective project management, the new edition thoroughly covers every key component of the subject. This Tenth Edition features: New sections on scope changes, exiting a project, collective belief, and managing virtual teams More than twenty-five case studies, including a new case on the Iridium Project covering all aspects of project management 400 discussion questions More than 125 multiple-choice questions (PMI, PMBOK, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

This CD-ROM shows how to systematically incorporate the principles of water conservation, recycling, and reuse into the design of new plants, retrofits of existing systems, and

technology development. Technology summaries and case studies that support this systematic approach to water reuse, as well as recommendations for further research, are included. Included in the price of this CD-ROM is an additional chapter, available in December 2002, detailing water reuse opportunities by industry. The chapter will address the general uses of water in industry, their associated energy costs, and energy management as related to water use and water use reduction.

This is the Eleventh Edition of the student workbook that accompanies the best selling "bible" of project management. The workbook contains additional problems and exercises to reinforce the concepts presented in the main text. It also serves as a self-study guide for the Project Management Professional (PMP®) certification exam to be based on PMI®'s PMBOK® Guide, 5E. Both as accompanying supplement to Kerzner's text and as standalone self-study guide, this workbook gives students key insights from the acknowledged world leader in project management. (PMI, PMBOK, CAPM, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

This book is intended as a basis for advanced treatment of concepts in project management. In the current scenario where most questions are answered through the internet, the knowledge element in project management has come under the influence of disruptive technologies. In other words, project managers no longer get 'points' for knowing something that is easily available on the internet. This has far-reaching consequences. The present day project managers need to orient themselves to newer benchmarks of what is required for success on the business front. This book deals with a few such advanced concepts in project management. This book is not designed as an elementary primer to the field of project management, rather it is an advanced level treatment on the subject, to be read after the preliminary study has already been completed. The book is designed for practicing project managers, and graduate students in engineering and management, who need to understand the dynamics that are typically encountered in a project-based environment. The content in the book is based on extensive study of literature and training programs. Many of the tools have been developed on the basis of modeling and simulation methods that are specially designed by the author. These were tested at several live projects across the globe. Most of the exercises in the book are actually meant for the reader to perform as they go. The book is not designed with a 'read-all-and-come-back-later' approach, rather it focuses on 'learning by doing', whereby the reader is expected to do the exercises before reading on. The book will prove useful in self-learning, as well as in classroom teaching and professional training programs.

The revised edition of the single-best source of project management case studies Project Management Case Studies, Second Edition presents the most comprehensive collection of project management case studies available today. Compiled by Harold Kerzner, the leading authority on project management, it offers more than ninety case studies that illustrate both successful implementation of project management by actual companies and pitfalls to avoid in a variety of real-world situations. Now with twenty-five new case studies, this new edition: Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive, finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management Presents best practices and pitfalls of project management implementation in the real world Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Whether used with the latest edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling, or on its own, Project Management Case Studies, Second Edition is a valuable resource for students, as well as practicing engineers and managers. Other powerful tools by Harold Kerzner: Project Management: A Systems Approach to Planning, Scheduling, and Controlling, Ninth Edition (0-471-74187-6) Project Management Workbook and PMP®/CAPM® Exam Study Guide, Ninth Edition (0-471-76076-5) (CAPM, PMP, and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Describes ways to incorporate domain modeling into software development.

This widely acclaimed classic reference has been completely revised and reorganized, providing readers at all levels of experience with an authoritative, up-to-date source that's easier than ever to see. New to this edition are updates to all chapters. Newly released Project Management Institute Body of Knowledge updates throughout.

The application of project management techniques is considered standard practice in today's business environment. What is not widely known is that the learning gap separating good project management from exceptional project management is not as great as one might think—yet, the difference in the return on value can be quite significant. Many factors determine how projects are approached, such as rapid shifts in technology, a fluctuating market, changes in a business's organizational structure, and politics. As these forces add to a project's complexity and duration, project managers must develop strategies that allow them to think outside the box and create new on-the-go methodologies. Managing Complex Projects delivers the tools necessary to take on an unpredictable economy with an adaptable battle plan proven to meet the differing needs of an ever-expanding set of partners and stakeholders involved in a project. This book shows how to solve some of the issues facing today's project manager, including: Dealing with multiple virtual teams located around the world Working with partners and stakeholders that may have limited project management tools and experience Adjusting to long-term projects in which the stakeholders may change Managing projects where stated goals and objectives differ among stakeholders This book shows how companies such as IBM, Hewlett-Packard, Microsoft, and Siemens are exploring new avenues to aid them in taking on complex projects by combining "hard" skills, such as risk management and scheduling, with "soft" skills that focus on interpersonal communication. Managing Complex Projects serves as a lifesaver for time-crunched project managers looking for new ways to maximize their efforts.

In the traditional view of project management, if a project manager completed a project and had adhered to the triple constraints of time, cost, and performance, the project was

considered a success. Today, in the eyes of the customer and the parent or sponsoring company, if a completed project did not deliver its anticipated value, it would be seen as a failure. Today's changing economic climate, marked by an increasingly competitive global environment, is driving project managers to become more business oriented. Projects must now be viewed from a strategic perspective within the context of a business or enterprise that needs to provide value to both the customer and the organization itself. As a result, project managers are now required to possess the skills to complete a project within certain specifications, and also know how to create and deliver value. Responding to the needs of today's project managers, Value-Driven Project Management begins by changing the paradigm of project management. Rather than judge the success of a project from the perspectives of time, budget, and quality, the authors demonstrate why success is only achieved when planned business values are met, including: Internal value Financial value Future value Customer-related value The authors also offer best practices that allow you and your organization to create additional value in efficiency, customer satisfaction, and enhanced products and services. Finally, the book helps you incorporate value into clearly defined business objectives and "sell" the value-driven process to executives. Throughout the book, helpful illustrations clarify complex concepts and processes. Assigning valuable resources to projects that don't provide some tangible form of value to the organization and to the client is poor management and poor decision-making. On the other hand, selecting and implementing projects that will deliver value and an acceptable return on investment is effective management and decision-making, but is very challenging, especially when a project may not provide its target value for years to come. With Value-Driven Project Management in hand, you'll discover the tools you need to ensure that projects deliver true value upon their completion.

TRY (FREE for 14 days), OR RENT this title: [www.wileystudentchoice.com](http://www.wileystudentchoice.com) Projects continue to grow larger, increasingly strategic, and more complex, with greater collaboration, instant feedback, specialization, and an ever-expanding list of stakeholders. Now more than ever, effective project management is critical for the success of any deliverable, and the demand for qualified Project Managers has leapt into nearly all sectors. Project Management provides a robust grounding in essentials of the field using a managerial approach to both fundamental concepts and real-world practice. Designed for business students, this text follows the project life cycle from beginning to end to demonstrate what successful project management looks like on the ground. Expert discussion details specific techniques and applications, while guiding students through the diverse skill set required to select, initiate, execute, and evaluate today's projects. Insightful coverage of change management provides clear guidance on handling the organizational, interpersonal, economic, and technical glitches that can derail any project, while in-depth cases and real-world examples illustrate essential concepts in action.

Updated for today's businesses-a proven model FOR assessment and ongoing improvement Using the Project Management Maturity Model, Second Edition is the updated edition of Harold Kerzner's renowned book covering his Project Management Maturity Model (PMMM). In this hands-on book, Kerzner offers a unique, industry-validated tool for helping companies of all sizes assess and improve their progress in integrating project management into every part of their organizations. Conveniently organized into two sections, this Second Edition begins with an examination of strategic planning principles and the ways they relate to project management. In the second section, PMMM is introduced with in-depth coverage of the five different levels of development for achieving maturity. Easily adaptable benchmarking instruments for measuring an organization's progress along the maturity curve make this a practical guide for any type of company. Complete with an associated Web site packed with both teaching and learning tools, Using the Project Management Maturity Model, Second Edition helps managers, engineers, project team members, business consultants, and others build a powerful foundation for company improvement and excellence.

This volume of Advances in Library Administration and Organization attempts to put project management into the toolboxes of library administrators through overviews of concepts, analyses of experiences, and forecasts for the use of project management within the profession.

Innovation: A Systems Approach Subject Guide: Engineering-Industrial & Manufacturing It is a systems world. This concise book uses a systems-based approach to show how innovation is ubiquitous in all facets of endeavors, including business, industry, government, and academia. The systems approach facilitates process design, evaluation, justification, and integration. This book explicitly highlights the crucial role of integration in any innovation project. It presents conceptual and operational definitions of innovation. Emphasis is placed on the context related to the theme of systems thinking. Features Covers the intrinsic basis for innovation from a systems perspective Describes the use of the DEJI systems model for actuating innovation Highlights the role of humans in the innovation loop Provides guidance for innovation project management Presents a case example of linking quality and innovation Introduces the Umbrella Theory of Innovation

As with other parts of business, technology is having a profound effect on the world of work and management of human resources. Technology is a key enabler for faster, cheaper and better delivery of HR services and in some cases can have a transformational as well as unintended negative effect. Designed for the digital era, e-HRM is one of the first textbooks on these developments. It incorporates the most current and important HR technology related topics in four distinct parts under one umbrella, written by leading scholars and practitioners drawn from across the world. All the chapters have a uniform structure and pay equal attention to theory and practice with an applied focus. Learning resources of the book include chapter-wide learning objectives, case studies, debates on related burning issues, and the companion website includes lecture slides and a question bank.

A Systems Approach to Managing the Complexities of Process Industries discusses the principles of system engineering, system thinking, complexity thinking and how these apply to the process industry, including benefits and implementation in process safety management systems. The book focuses on the ways system engineering skills, PLM, and IIoT can radically improve effectiveness of implementation of the process safety management system. Covering lifecycle, megaproject system engineering, and project management issues, this book reviews available tools and software and presents the practical web-based approach of Analysis & Dynamic Evaluation of Project Processes (ADEPP) for system engineering of the process manufacturing development and operation phases. Key solutions proposed include adding complexity management steps in the risk assessment framework of ISO 31000 and utilization of Installation Lifecycle Management. This study of this end-to-end process will help users improve operational excellence and navigate the complexities of managing a chemical or processing plant. Presents a review of Operational Excellence and Process Safety Management Methods, along with solutions to complexity assessment and management Provides a comparison of the process manufacturing industry with discrete manufacturing, identifying similarities and areas of customization for process manufacturing Discusses key solutions for managing the complexities of process manufacturing development and operational phases

Project management for oil and gas projects comes with a unique set of challenges that include the management of science, technology, and engineering aspects. Underlining the specific issues involved in

projects in this field, *Project Management for the Oil and Gas Industry: A World System Approach* presents step-by-step application of project management techniques. Using the Project Management Body of Knowledge (PMBOK®) framework from the Project Management Institute (PMI) as the platform, the book provides an integrated approach that covers the concepts, tools, and techniques for managing oil and gas projects. The authors discuss specialized tools such as plan, do, check, act (PDCA); define, measure, analyze, improve, control (DMAIC); suppliers, inputs, process, outputs, customers (SIPOC); design, evaluate, justify, integrate (DEJI); quality function deployment (QFD); affinity diagrams; flowcharts; Pareto charts; and histograms. They also discuss the major activities in oil and gas risk assessment, such as feasibility studies, design, transportation, utility, survey works, construction, permanent structure works, mechanical and electrical installations, and maintenance. Strongly advocating a world systems approach to managing oil and gas projects and programs, the book covers quantitative and qualitative techniques. It addresses technical and managerial aspects of projects and illustrates the concepts with case examples of applications of project management tools and techniques to real-life project scenarios that can serve as lessons learned for best practices. An in-depth examination of project management for oil and gas projects, the book is a handbook for professionals in the field, a guidebook for technical consultants, and a resource for students.

This book attempts to reflect the project reality as closely as possible, covering the ISO 21500:2012 standard that has just been introduced and the benefits from the best contributions worldwide and also providing the concise yet powerful tool box. It shall be easy to use and intuitively supportive of project managers. So far, evidence indicates that these targets are successfully met. One of its key recognitions, and in consequence a distinctive feature of this book, is the impact that the project manager's personality has on the fate of the project. The project manager's successful self-management in work & life and in leadership processes should be considered as important in any endeavor as all other project management processes, covered by the new standards and guidelines.

To build reliable, industry-applicable software products, large-scale software project groups must continuously improve software engineering processes to increase product quality, facilitate cost reductions, and adhere to tight schedules. Emphasizing the critical components of successful large-scale software projects, *Software Project Management: A Process-Driven Approach* discusses human resources, software engineering, and technology to a level that exceeds most university-level courses on the subject. The book is organized into five parts. Part I defines project management with information on project and process specifics and choices, the skills and experience needed, the tools available, and the human resources organization and management that brings it all together. Part II explores software life-cycle management. Part III tackles software engineering processes and the range of processing models devised by several domestic and international organizations. Part IV reveals the human side of project management with chapters on managing the team, the suppliers, and the customers themselves. Part V wraps up coverage with a look at the technology, techniques, templates, and checklists that can help your project teams meet and exceed their goals. A running case study provides authoritative insight and insider information on the tools and techniques required to ensure product quality, reduce costs, and meet project deadlines. Praise for the book: This book presents all aspects of modern project management practices ... includes a wealth of quality templates that practitioners can use to build their own tools. ... equally useful to students and professionals alike. —Maqbool Patel, PhD, SVP/CTO/Partner, Acuitec

The role of the project manager continues to evolve, presenting new challenges to established practitioners and those entering the field for the first time. This second edition of Peter Fewings' groundbreaking textbook has been thoroughly revised to recognise the increasing importance of sustainability and lean construction in the construction industry. It also tackles the significance of design management, changing health and safety regulation, leadership and quality for continuous improvement of the service and the product. Using an integrated project management approach, emphasis is placed on the importance of effectively handling external factors in order to best achieve an on-schedule, on-budget result, as well as good negotiation with clients and skilled team leadership. Its holistic approach provides readers with a thorough guide in how to increase efficiency and communication at all stages while reducing costs, time and risk. Short case studies are used throughout the book to illustrate different tools and techniques. Combining the theories underpinning best practice in construction project management, with a wealth of practical examples, this book is uniquely valuable for practitioners and clients as well as undergraduate and graduate students for construction project management.

This unique text provides a holistic systems approach to project portfolio management which includes people, processes, tools, and techniques that work synergistically to produce portfolio decisions with the best chance of success. Accompanied by decision support software and advanced decision making techniques, it guides readers step-by-step through the entire project portfolio management process. This professional guide is also ideal for executive continuing education programs, and as a primary text for graduate level academic courses.

Imagine if we were using the same medical techniques today that were used during the Industrial Revolution, including the practice of bloodletting using leeches. Medicine has come a long way since then. So why do organizations and corporations cling to management techniques that are just as obsolete as the bleed-and-leech model? In a global workplace that is more diverse and filled with entirely new challenges, now is the time for organizations to evolve to a more effective style of leadership and project management. A roadmap for leading projects and groups, *Moving from Project Management to Project Leadership: A Practical Guide to Leading Groups* covers the theory, strategy, and tactics that create high-performing teams and organizations. The first half of the book delineates the theories and practical knowledge required to be an extraordinarily effective leader. It defines what it is, exactly, that you need to do to be the best leader you can be. The second half of the book provides the tools and processes required to put that knowledge into place. The author explores the theory that it's all about the communication. By paying close attention to organizational clarity and the way messages are transmitted within your organization, you will find new ways of empowering people while increasing efficiency — something the old management style can rarely boast. If project leadership is the main thesis of this book, the power of effective top-down communication is the tune you'll be humming after putting this book down.

Senior executives and project managers from more than 50 world-class companies offer their best practices for successful project management implementation The first two editions of the bestselling *Project Management Best Practices* helped project managers navigate the increasingly complex task of working within global corporations employing distant and diverse work teams. This new Third Edition includes the same valuable wealth of proven best practices, while following up on case studies from previous editions and offering new case studies on project management practices at large and small companies. The Third Edition offers insight from project managers and executives at more than fifty global companies in all sectors of the market. These industry-leading professionals offer insight and best practices for: Project risk management Project management for multinational cultures and cultural failures Focusing on value, as well as cost and schedule Integrated and virtual project teams Covering the latest developments in the project management field, *Project Management Best Practices, Third Edition* offers a must-have window into the issues and solutions facing corporate managers, project and team managers, engineers, project team members, and business consultants in today's global market.

A new edition of the most popular book of project management case studies, expanded to include more than 100 cases plus a "super case" on the Iridium Project Case studies are an important part of project management education and training. This Fourth Edition of Harold Kerzner's *Project Management Case Studies* features a number of new cases covering value measurement in project management. Also included is the well-received "super case," which covers all aspects of project management and may be used as a capstone for a course. This new edition: Contains 100-plus case studies drawn from real companies to illustrate both successful and poor implementation of project management Represents a wide range of industries, including medical and pharmaceutical, aerospace, manufacturing, automotive,

finance and banking, and telecommunications Covers cutting-edge areas of construction and international project management plus a "super case" on the Iridium Project, covering all aspects of project management Follows and supports preparation for the Project Management Professional (PMP®) Certification Exam Project Management Case Studies, Fourth Edition is a valuable resource for students, as well as practicing engineers and managers, and can be used on its own or with the new Eleventh Edition of Harold Kerzner's landmark reference, Project Management: A Systems Approach to Planning, Scheduling, and Controlling. (PMP and Project Management Professional are registered marks of the Project Management Institute, Inc.)

Choosing the right people to carry out a project is essential to its success. When multiple projects are combined into a complex program, the human aspect becomes even more important. This book is the first to truly balance a complete account of the technical aspects of project and program management with a practical approach to understanding and developing the core competencies required to accomplish desired goals. On the technical side, this book is a complete introduction to predicting costs, setting schedules, and assessing risks. On the people side, it sheds new light on how to mold different personality types into a team, how to motivate the team's members, and how to produce extraordinary results. The author details the essential parts of the program management approach, describing the best way to define, organize, and schedule the work to be done, identifying risks and controlling costs during the whole process. This fourth edition has been significantly revised, with every chapter updated. The volume considers the magnitude of recent social, political, and technological changes, and the impact is represented throughout this book. Included are insights from numerous students who bring to the forefront their current real-world practices from their individual businesses, industries, and disciplines.

Project Management Leadership is a comprehensive guide to the human factors involved in Project Management, in particular the leadership skills required to ensure successful implementation of current best practice. It provides the latest insights on team building, motivation, collaboration, and networking skills, and the way these can be harnessed to manage a successful project. Exercises and worked examples are provided throughout.

Projects are the engines that drive innovation from idea to commercialization. In fact, the number of projects in most organizations today is expanding while operations is shrinking. Yet, since many companies still focus on operational excellence and efficiency, most projects fail—largely because conventional project management concepts cannot adapt to a dynamic business environment. Moreover, top managers neglect their company's project activity, and line managers treat all their projects alike—as part of operations. Based on an unprecedented study of more than 600 projects in a variety of businesses and organizations around the globe, Reinventing Project Management provides a new and highly adaptive model for planning and managing projects to achieve superior business results.

The goal of the new edition is to continue with a systems view of the world. For a more robust and worldwide market dissemination, the new edition has changed to a reference book. The project systems approach to project management, is needed in executing projects across countries and across cultures, which is a crucial requirement in today's globalized and intertwined economics. The book uses ample graphical representations to clarify the concepts and techniques presented. The case examples help to reinforce the topics covered. Several illustrative examples and practice exercises are included. Each chapter is updated and new chapters include Project Simulation and Project Templates. A new chapter on managing complex projects in an age of artificial intelligence adds a unique value to the book. Features Highlights contemporary best practices of project management Uses a systems framework to integrate quantitative and qualitative tools Offers illustrative examples and practice exercises Covers project schedule performance appraisal techniques Discusses the knowledge areas contained in the Project Management Book of Knowledge (PMBOK) Presents software applications for project management, as well as case examples

Written by Chitram Lutchman, a project management professional with more than 20 years of field and business experience, Project Execution: A Practical Approach to Industrial and Commercial Project Management gives you a more optimistic view of this exciting and challenging area. The book focuses on the essential requirements for successful executi

6.4. Practical Guide -- 6.5. Limitations and Further Research -- 6.5.1. Limitations -- 6.5.2. Further Research -- References -- Appendices -- Appendix A: Model Validation -- A.1. Introduction -- A.2. Philosophical Aspects of Model Validity -- A.3. Model Validation Process -- A.4. Methods for Testing and Validating the Integrated System Models -- A.5. Importance of the Integrated System Model Objective -- A.6. Validating the Model Structure -- A.7. Tests of Suitability -- A.7.1. Structure Verification -- A.7.2. Parameter Verification -- A.7.3. Boundary Adequacy -- A.7.4. Dimensional Consistency -- A.7.5. Extreme Conditions -- A.8. Validating the Model Behaviour -- A.8.1. Behaviour Reproduction Test -- A.8.2. Sensitivity Analysis -- A.8.3. Numerical Sensitivity Analysis -- A.8.4. Behaviour Mode Sensitivity Analysis -- A.9. Other Tests -- A.9.1. Policy Analysis, Design and Improvement -- A.9.2. Feedback Approach -- A.9.3. Disaggregation Approach -- A.9.4. Simulation Approach -- A.9.5. Manageable Model Size -- A.10. Policy Implementation -- A.11. Summary -- Appendix B: Structured Interview Questionnaire and Participants -- Appendix C: Respondent's Mean Scores of Importance -- Index

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