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This volume features papers from the 18th International Congress on Project Management and Engineering, held by the University of Zaragoza in collaboration with the Spanish Association of Project Management and Engineering (AEIPRO). It illustrates the state of the art in this emerging area. Readers will discover ways to increase the effectiveness of project engineering as well as the efficiency of project management. The papers, written by international researchers and professionals, cover civil engineering and urban planning, product and process engineering, environmental engineering, energy efficiency and renewable energies, rural development, safety, labor risks and ergonomics, and training in project engineering. Overall, this book contributes to the improvement of project engineering research and enhances the transfer of results to the job of project engineers and project managers around the world. It will appeal to all professionals in the field as well as researchers and teachers involved in the training of future professionals. Project Management for Engineers, as the title suggests, is a direct attempt at addressing the ever-increasing and specific needs for better project management of engineering students, practicing engineers and managers in the industry. It aims not only to present the principles and techniques of Project Management, but also to discuss project management standards, processes and requirements, such as PMBOK, IEEE and PRINCE. Each chapter begins with the basics of the theme being developed at a level understandable to an undergraduate, before more complex topics are introduced at the end of each section that are suitable for graduate students. For the practicing professionals or managers in the industry, the book also provides many real illustrations of practical application of the principles of Project Management. Through a realistic blend of theory and practical examples, as well as an integration of the engineering technical issues with business issues, this book seeks to remove the veil of mystery that has shrouded the profession from its very beginning. Engineers and technicians working on development projects are becoming more aware of the need for the participation of local people, and that women, in particular, should be involved closely at all stages of the project cycle. This booklet sets out why engineers should involve both men and women in infrastructure projects and why women's participation has a special emphasis. It introduces ways in which engineers and technicians can ensure their projects focus on the needs of men and women. Although many people working on development projects will be aware of these issues, others may not be. As well as providing an introduction for engineers and technicians who have not covered some of the social issues before, this booklet is also useful for managers who do understand the issues but are seeking ways to

tackle these, or for those who wish to explain the problems and solutions to their colleagues. This book is one of the outputs from a Knowledge and Research project funded by the Department for International Development (DFID) of the British Government. James O. Pennock has compiled 45 years of personal experience into this how-to guide. Focusing on the position of "lead in charge," this book is an indispensable resource for anyone, new or seasoned veteran, whose job it is to lead the piping engineering and design of a project. The "lead" person is responsible for the successful execution of all piping engineering and design for a project, technical and non-technical aspects alike. The author defines the roles and responsibilities a lead will face and the differences found in various project types. Incorporates four decades of personal experience in a How-To guide Focuses on the position of "lead in charge" Includes coverage of topics often ignored in other books yet essential for success: management, administrative, and control responsibilities

In *Experiment with Engineering*, you can take science out of the lab and into your home with this book of fun and engineering experiments to try! This is the first book to examine the actual impact of physical and social engineering projects in more than fifty countries from a multidisciplinary perspective. The book brings together an international team of nearly two hundred authors from over two dozen different countries and more than a dozen different social, environmental, and engineering sciences. Together they document and illustrate with case studies, maps and photographs the scale and impacts of many megaprojects and the importance of studying these projects in historical, contemporary and postmodern perspectives. This pioneering book will stimulate interest in examining a variety of both social and physical engineering projects at local, regional, and global scales and from disciplinary and trans-disciplinary perspectives. Presents an Integrated Approach, Providing Clear and Practical Guidelines

Are you a student facing your first serious research project? If you are, it is likely that you'll be, firstly, overwhelmed by the magnitude of the task, and secondly, lost as to how to go about it. What you really need is a guide to walk you through all aspects of the research. This book presents the case for Project-Based Learning within Socio-Technical Systems in Engineering Education. The book highlights the importance of projects as Socio-Technical Systems as a means for supporting and enhancing international accreditation of engineering programs. Practical examples illustrate how Socio-Technical Systems are brought into the educational environment through Project-Based Learning. The book goes on to discuss the impact this may have on Engineering Education practice. The work presented will enable engineering educators to develop curricula that can respond to societal needs, while also enhancing teaching and learning. It offers an approach to engineering education that centers on engaging scholars in projects that are located within socio-technical systems. University, government and industry leaders will gain from this book as it provides insight into strategic planning and

partnership-building for Engineering Education. We hope this book will further foster deep scholarship of research to ready engineering faculties for engaging responsibly with their surrounding communities. Features: Offers applications of Project-Based Learning (PBL) in Engineering Education Matches elements of Socio-Technical Systems in Higher Engineering Education, with the Exit Level Outcomes (ELOs) required by professional engineering bodies Provides practical examples for the establishment of project environments within an academic faculty Shows examples in the success of execution of projects involving engineering educators, researchers, program developers, government agencies and industry partners Presents a framework to develop Project-Based Learning in Engineering Education that addresses Socio-Technical requirements and will enable engineering educators to collaboratively develop engineering curricula with industry that will respond to societal needs This book gathers the proceedings of the EPPM 2019 conference, and highlights innovative work by researchers and practitioners active in various industries around the globe. Recent advances in science and technology have made it possible to seamlessly connect and integrate various elements of engineering systems, and opened the door for innovations that have transformed how we live and work. While these developments have yielded enhanced efficiency and numerous improvements in our current practices, the problems caused by the increased complexity of these integrated systems can be extremely difficult. Accordingly, solving these problems involves applying cross-disciplinary expertise to address the heterogeneity of the various elements inherent in the system. These proceedings address four main themes: (I) Smart and Sustainable Construction, (II) Advances in Project Management Practices, (III) Toward Safety and Productivity Improvement, and (IV) Smart Manufacturing, Design, and Logistics. As such, they will be of interest to and valuable to researchers and practitioners in a range of industries seeking an update on the translational fields of engineering, project, and production management. This book presents IPQMS (Integrated Planning and Quality Management System) as a powerful management methodology. This system ensures cost-effectiveness as well as quality in the constructed project, environmental cleanups, and other sectors - providing an integrative force for essential teamwork in industry and government. This book contains business and engineering case studies, illustrating a principle, issue, or approach in making a decision. Each case study examines the spectrum of a particular project, demonstrating the interrelationships among policy makers, planners, designers, implementers, and managers in creating a project. Imagine the dynamics of an international engineering project such as this one: a U.S. group designs, prototypes, and qualifies disk drive heads; wafers for the drive heads are manufactured in the U.S. and sent to Malaysia for subassembly; a South Korean firm assembles these components; the final product, a fully automated disk drive, is completed in Japan. In addition to the global complexities of the project,

there are a host of issues in leading the project team spread across continents. Global Engineering Project Management aligns real-world experiences in managing global projects with practical project management principles. The author demonstrates how to anticipate issues, covering everything from start-up planning and supply management to cost containment, post-project evaluation and protecting intellectual property. He explores technologies, virtual teams, traditions, economics, politics, and legal issues in the context of international projects, as well as compares the differences with domestic projects. He also highlights the complications of international bidding, the extra time and effort needed for multi-national team formation and management, and often overlooked project closure tasks. As the world goes global, engineering projects increasingly involve multiple countries, each having unique politics, cultures, and standards that all add layers of complexity to project management. These variables multiply fast and consequently a project manager's responsibilities multiply faster. Examining these challenges from start to finish, the book provides practical advice on how to navigate the issues unique to global engineering project management. Beginning with guidance on understanding the typical organizational structure of any type of company, and then going on to providing help on getting started with a project team, understanding key roles, and avoiding common pitfalls, this book provides many examples of typical projects from representative industries and organizations of all kinds. This new edition of *Civil Engineering: Supervision and Management* updates and revises the best practical guide for on-site engineers. Written from the point of view of the project engineer it details their responsibilities, powers and duties. The book has been fully updated to reflect the latest changes to management practice and new forms of contract. As a practical guide to on-site project management it is invaluable to practising engineers.

Build Excitement for Engineering Make engineering for kids fun and inspiring. From toothpick towers and marble runs to egg drops and water rockets, *Awesome Engineering Activities for Kids* is filled with exciting projects that will challenge and delight kids ages 5-10. Kids learn how and why things work as they explore amazing projects all by themselves. These engineering for kids activities also help them discover important STEAM connections, showing how engineering relies on science, technology, art, and math. *Awesome Engineering Activities for Kids* features: **MORE THAN 50 PROJECTS**-Learn about different kinds of engineering for kids by constructing shoebox foosball, rubber band race cars and more. **EASY-TO-FIND MATERIALS**-Create a makerspace-a place to freely start and explore projects-with items readily found around the house. **STEP-BY-STEP INSTRUCTIONS**-Engineering for kids is easy with detailed steps that make it simple for kids to take the lead on activities and build on their own. Unlock the world of engineering for kids with *Awesome Engineering Activities for Kids*. Written specifically for engineering students, this handbook is packed with practical guidance on

conducting projects and writing clear and coherent reports. It takes students step-by-step through the key stages in a project, from identifying the problem and analysing its causes to defining solution requirements and developing and implementing solutions. It also provides guidance on other important aspects of project work, such as communicating with industrial partners and presenting their report. Chapters feature a wealth of examples and top tips to help students apply concepts to their own projects. This will be an essential companion for engineering students of all disciplines who are undertaking a group or individual project or report. Project Management for Engineering, Business and Technology is a highly regarded textbook that addresses project management across all industries. First covering the essential background, from origins and philosophy to methodology, the bulk of the book is dedicated to concepts and techniques for practical application. Coverage includes project initiation and proposals, scope and task definition, scheduling, budgeting, risk analysis, control, project selection and portfolio management, program management, project organization, and all-important "people" aspects—project leadership, team building, conflict resolution, and stress management. The systems development cycle is used as a framework to discuss project management in a variety of situations, making this the go-to book for managing virtually any kind of project, program, or task force. The authors focus on the ultimate purpose of project management—to unify and integrate the interests, resources and work efforts of many stakeholders, as well as the planning, scheduling, and budgeting needed to accomplish overall project goals. This sixth edition features: updates throughout to cover the latest developments in project management methodologies; a new chapter on project procurement management and contracts; an expansion of case study coverage throughout, including those on the topic of sustainability and climate change, as well as cases and examples from across the globe, including India, Africa, Asia, and Australia; and extensive instructor support materials, including an instructor's manual, PowerPoint slides, answers to chapter review questions and a test bank of questions. Taking a technical yet accessible approach, this book is an ideal resource and reference for all advanced undergraduate and graduate students in project management courses, as well as for practicing project managers across all industry sectors. We all live our daily lives surrounded by the products of technology that make what we do simpler, faster, and more efficient. These are benefits we often just take for granted. But at the same time, as these products disburden us of unwanted tasks that consumed much time and effort in earlier eras, many of them also leave us more disengaged from our natural and even human surroundings. It is the task of what Gene Moriarty calls focal engineering to create products that will achieve a balance between disburdenment and engagement: "How much disburdenment will be appropriate while still permitting an engagement that enriches one's life, elevates the spirit, and calls forth a good life in a convivial society?" One of his

examples of a focally engineered structure is the Golden Gate Bridge, which “draws people to it, enlivens and elevates the human spirit, and resonates with the world of its congenial setting. Humans, bridge, and world are in tune.” These values of engagement, enlivenment, and resonance are key to the normative approach Moriarty brings to the profession of engineering, which traditionally has focused mainly on technical measures of evaluation such as efficiency, productivity, objectivity, and precision. These measures, while important, look at the engineered product in a local and limited sense. But “from a broader perspective, what is locally benign may present serious moral problems,” undermining “social justice, environmental sustainability, and health and safety of affected parties.” It is this broader perspective that is championed by focal engineering, the subject of Part III of the book, which Moriarty contrasts with “modern” engineering in Part I and “pre-modern” engineering in Part II. Looking for science-themed makerspace projects that won't take too long? Look no more! From bots and goo to lava and cells, these 10-minute STEM projects will have kids making in no time! Project management is the key to any engineering and construction project's success. Now you can learn from the experts real-world tested strategies you can use to lead your projects to on-time, within budget, high quality success stories. Specifics of scheduling, cost estimating and leadership skills are fully detailed. The authors will show you how to organize your project from the very beginning to achieve success. You'll also learn to use win-win negotiation skills during each stage of your project. Real world examples will facilitate your understanding of how to apply every aspect of the material presented in the text. Loaded with forms, checklists and case studies, this invaluable reference is a must for everyone involved with engineering and construction projects. This handbook contains information and practical guidance on the environmental issues likely to be encountered at each stage in the tendering and construction phases of a building or civil engineering project. It is aimed at informing construction managers, clients, designers and other consultants, engineers and scientists on their obligations and the opportunities open to them to improve the industry's environmental performance. From castles to animal masks, pirate ships, and even dinosaurs! You will be amazed at how much you can do with a simple cardboard box. A DIY projects book for kids that use recycling as a way to build creativity, imagination, and interactive play for kids aged 7-12. It features clear step-by-step instructions and detailed photographic explanations that will inspire imaginative minds. The sky is the limit with Out Of The Box! This book is designed to help kids learn and play. They will learn about the idea of upcycling and reusing materials that otherwise would be thrown away. This book has 25 brilliant projects for them to choose from. Detailed instructions and photographs along with colorful inspiration sheets will delight and inspire for hours of endless fun. Out Of The Box will help kids develop their creativity and imagination

through interactive play, and inspire them to find a thousand more projects to build. Think Out Of The Box! A box is just a box, right? Wrong! It could be a pirate ship, a butterfly, or a family of penguins! Out of the box will encourage kids to see a cardboard box as more than junk. Kids can build their imaginations and creative skills by reusing household cardboard. Learn to build and decorate a range of projects to share, wear, and play with. This educational book will show kids how to:

- Develop cardboard skills
- Build a castle, city and pirate ship
- Design penguins, butterflies, and rabbits
- Create games like ring toss
- Produce wearables like Pharaoh's finery and masks
- Decorate funky flowers and lazy lizards
- And much, much more!

DK is all about inspiring young minds, teaching them new skills and expanding their knowledge, imaginations, and perspectives. Help them to realize their true potentials by adding to your DK collection today. Awards Book category winner of the Creative Play Award 2017 Hone your understanding of science and engineering concepts with the versatile Arduino microcontroller and powerful Raspberry Pi mini-computer. The simple, straightforward, fun projects in this book use the Arduino and Raspberry Pi to build systems that explore key scientific concepts and develop engineering skills. Areas explored include force/acceleration, heat transfer, light, and astronomy. You'll work with advanced tools, such as data logging, advanced design, manufacturing, and assembly techniques that will take you beyond practical application of the projects you'll be creating. Technology is ever evolving and changing. This book goes beyond simple how-tos to teach you the concepts behind these projects and sciences. You'll gain the skills to observe and adapt to changes in technology as you work through fun and easy projects that explore fundamental concepts of engineering and science.

What You'll Learn

- Measure the acceleration of a car you're riding in
- Simulate zero gravity
- Calculate the heat transfer in and out of your house
- Photography the moon and planets
- Who This Book Is For

Hobbyists, students, and instructors interested in practical applications and methods to measure and learn about the physical world using inexpensive Maker technologies. The book is based on an international research project that analyzed sixty LEPs, among them the Boston Harbor cleanup; the first phase of subway construction in Ankara, Turkey; a hydro dam on the Caroni River in Venezuela; and the construction of offshore oil platforms west of Flor, Norway. As the number, complexity, and scope of large engineering projects (LEPs) increase worldwide, the huge stakes may endanger the survival of corporations and threaten the stability of countries that approach these projects unprepared. According to the authors, the "front-end" engineering of institutional arrangements and strategic systems is a far greater determinant of an LEP's success than are the more tangible aspects of project engineering and management. The book is based on an international research project that analyzed sixty LEPs, among them the Boston Harbor cleanup; the first phase of subway construction in Ankara, Turkey; a hydro dam on the Caroni River in Venezuela; and the construction of

offshore oil platforms west of Flor, Norway. The authors use the research results to develop an experience-based theoretical framework that will allow managers to understand and respond to the complexity and uncertainty inherent in all LEPs. In addition to managers and scholars of large-scale projects, the book will be of interest to those studying the relationship between institutions and strategy, risk management, and corporate governance in general. Contributors Bjorn Andersen, Richard Brealey, Ian Cooper, Serghei Floricel, Michel Habib, Brian Hobbs, Donald R. Lessard, Pascale Michaud, Roger Miller, Xavier Olleros

For newly hired young engineers assigned to their first real 'project', there has been little to offer in the way of advice on 'where to begin', 'what to look out for and avoid', and 'how to get the job done right'. This book gives this advice from an author with long experience as senior engineer in government and industry (U.S. Army Corps of Engineers and Exxon-Mobil). Beginning with guidance on understanding the typical organizational structure of any type of technical firm or company, author Plummer incorporates numerous hands-on examples and provides help on getting started with a project team, understanding key roles, and avoiding common pitfalls. In addition, he offers unique help on first-time experiences of working in other countries with engineering cultures that can be considerably different from the US.

Reviews essentials of management for any new engineer suddenly thrust into responsibility Emphasizes skills that can get you promoted—and pitfalls that can get you fired Expanded case study to show typical evolution of a new engineer handed responsibility for a major design project An overview of the concepts and technology of project management as they apply to a wide range of business and technical situations. There is much industry guidance on implementing engineering projects and a similar amount of guidance on Process Safety Management (PSM). However, there is a gap in transferring the key deliverables from the engineering group to the operations group, where PSM is implemented. This book provides the engineering and process safety deliverables for each project phase along with the impacts to the project budget, timeline and the safety and operability of the delivered equipment. Cardboard is everywhere! For creative kids aged 9 to 14, it's the perfect eco-friendly building material, and Cardboard Box Engineering is the perfect guide to get them started on inventive tinkering. A working kaleidoscope, a marble roller coaster, a robotic hand, and a wind-powered tractor with cardboard gears are just some of the ingenious projects developed by Jonathan Adolph, author of the best-selling Mason Jar Science. Working with simple household tools, kids can follow the step-by-step photographic instructions to exercise their design smarts, expand their 3-D thinking, and learn the basics of physics and engineering with activities that have real-life applications. A hands-on guide for creating a winning engineering project Engineering Project Management is a practical, step-by-step guide to project management for engineers. The author – a successful, long-time practicing engineering project manager – describes the techniques and

strategies for creating a successful engineering project. The book introduces engineering projects and their management, and then proceeds stage-by-stage through the engineering life-cycle project, from requirements, implementation, to phase-out. The book offers information for understanding the needs of the end user of a product and other stakeholders associated with a project, and is full of techniques based on real, hands-on management of engineering projects. The book starts by explaining how we perform the actual engineering on projects; the techniques for project management contained in the rest of the book use those engineering methods to create superior management techniques. Every topic – from developing a work-breakdown structure and an effective project plan, to creating credible predictions for schedules and costs, through monitoring the progress of your engineering project – is infused with actual engineering techniques, thereby vastly increasing the effectivity and credibility of those management techniques. The book also teaches you how to draw the right conclusions from numeric data and calculations, avoiding the mistakes that often cause managers to make incorrect decisions. The book also provides valuable insight about what the author calls the social aspects of engineering project management: aligning and motivating people, interacting successfully with your stakeholders, and many other important people-oriented topics. The book ends with a section on ethics in engineering.

This important book: Offers a hands-on guide for developing and implementing a project management plan Includes background information, strategies, and techniques on project management designed for engineers Takes an easy-to-understand, step-by-step approach to project management Contains ideas for launching a project, managing large amount of software, and tips for ending a project Structured to support both undergraduate and graduate courses in engineering project management, *Engineering Project Management* is an essential guide for managing a successful project from the idea phase to the completion of the project. There is much industry guidance on implementing engineering projects and a similar amount of guidance on Process Safety Management (PSM). However, there is a gap in transferring the key deliverables from the engineering group to the operations group, where PSM is implemented. This book provides the engineering and process safety deliverables for each project phase along with the impacts to the project budget, timeline and the safety and operability of the delivered equipment. Systems engineering has been applied to some of the most important projects of our time, including those that have helped humanity explore the world and the universe, expand our technical abilities, and enhance the quality of human life. Without formal training in systems engineering, the discipline is often difficult to understand and apply, and its use within projects is often confusing. *Systems Engineering for Projects: Achieving Positive Outcomes in a Complex World* provides an approach that utilizes a combination of the most effective processes from both project

management and systems engineering disciplines in a simplified and straightforward manner. The processes described in the book are lightweight, flexible, and tailorable. They provide the shortest path to success in projects across the entire project life cycle, from research to operations, and from simple to the most complex. The book also addresses how this methodology can be used in a continually adapting and changing world, as projects span disciplines and become even more interconnected across all areas of human existence. Each chapter includes diagrams, templates, summary lists, a case study, and a thought-provoking question and answer section that assists readers in immediate application of the material to their own projects. The book is a project manager's resource for understanding how to directly apply essential processes to projects in a way that increases the probability of achieving success. It is a comprehensive, go-to manual on the application of systems engineering processes to projects of all types and complexity. This book presents a wide ranging review of current civil engineering project procedure in the European construction market. It explains the options available when considering a financial venture abroad, whilst giving a truly international insight into the technical, legal, professional, financial and cultural implications of a construction industry without frontiers. Written by an engineer and construction lawyer with many years of experience, *The Application of Contracts in Engineering and Construction Projects* provides unique and invaluable guidance on the role of contracts in construction and engineering projects. Compiling papers written and edited by the author, it draws together a lifetime of lessons learned in these fields and covers the topics a practicing professional might encounter in such a project, developed in bite-sized chunks. Key topics included are: the engineer and the contract; the project and the contract; avoidance and resolution of disputes; forensic engineers and expert witnesses; and international construction contracts. The inclusion of numerous case studies to illustrate the importance of getting the contract right before it is entered into, and the consequences that may ensue if this is not done, makes *The Application of Contracts in Engineering and Construction Projects* essential reading for construction professionals, lawyers and students of construction law. A hands-on guide for creating a winning engineering project *Engineering Project Management* is a practical, step-by-step guide to project management for engineers. The author – a successful, long-time practicing engineering project manager – describes the techniques and strategies for creating a successful engineering project. The book introduces engineering projects and their management, and then proceeds stage-by-stage through the engineering life-cycle project, from requirements, implementation, to phase-out. The book offers information for understanding the needs of the end user of a product and other stakeholders associated with a project, and is full of techniques based on real, hands-on management of engineering projects. The book starts by explaining how we perform the actual engineering on

projects; the techniques for project management contained in the rest of the book use those engineering methods to create superior management techniques. Every topic – from developing a work-breakdown structure and an effective project plan, to creating credible predictions for schedules and costs, through monitoring the progress of your engineering project – is infused with actual engineering techniques, thereby vastly increasing the effectivity and credibility of those management techniques. The book also teaches you how to draw the right conclusions from numeric data and calculations, avoiding the mistakes that often cause managers to make incorrect decisions. The book also provides valuable insight about what the author calls the social aspects of engineering project management: aligning and motivating people, interacting successfully with your stakeholders, and many other important people-oriented topics. The book ends with a section on ethics in engineering. This important book: Offers a hands-on guide for developing and implementing a project management plan Includes background information, strategies, and techniques on project management designed for engineers Takes an easy-to-understand, step-by-step approach to project management Contains ideas for launching a project, managing large amount of software, and tips for ending a project Structured to support both undergraduate and graduate courses in engineering project management, Engineering Project Management is an essential guide for managing a successful project from the idea phase to the completion of the project. This book focuses on various topics related to engineering and management of requirements, in particular elicitation, negotiation, prioritisation, and documentation (whether with natural languages or with graphical models). The book provides methods and techniques that help to characterise, in a systematic manner, the requirements of the intended engineering system. It was written with the goal of being adopted as the main text for courses on requirements engineering, or as a strong reference to the topics of requirements in courses with a broader scope. It can also be used in vocational courses, for professionals interested in the software and information systems domain. Readers who have finished this book will be able to: - establish and plan a requirements engineering process within the development of complex engineering systems; - define and identify the types of relevant requirements in engineering projects; - choose and apply the most appropriate techniques to elicit the requirements of a given system; - conduct and manage negotiation and prioritisation processes for the requirements of a given engineering system; - document the requirements of the system under development, either in natural language or with graphical and formal models. Each chapter includes a set of exercises. 40+ things to invent, draw, and make! Featuring art from the beloved New York Times bestselling picture book, Rosie Revere, Engineer, this activity book contains kid-friendly projects of all kinds and is the perfect gift for curious young readers! Soon enough they'll be engineering whizzes just like Rosie, and along the way she'll reassure them that

failure, flops, mess-ups and cross-outs are part of the process. Do you like to make things? Dream up gadgets to improve your life and the lives of others? Then you are ready to join Rosie Revere and become a great engineer! Engineering is persevering, and this book is the perfect place for trying out, crossing out, and trying again. And now you can follow Rosie's further adventures—with her friends Iggy Peck and Ada Twist—in the instant New York Times bestseller Rosie Revere and the Raucous Riveters, an all-new chapter book starring The Questioners! Collect them all! Add these other STEM favorites from #1 New York Times bestselling team Andrea Beaty and David Roberts to your family library today! Rosie Revere, Engineer Ada Twist, Scientist Iggy Peck, Architect Rosie Revere and the Raucous Riveters Ada Twist and the Perilous Pants Ada Twist's Big Project Book for Stellar Scientists Iggy Peck's Big Project Book for Amazing Architects

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