

Sample Capstone Project Paper

This invaluable workbook-style reference guide will help you transition from writing for composition classes to writing for psychology classes. Author Lenore T. Szuchman's years of experience teaching writing-intensive courses give her an inside track on the trouble spots students often encounter when writing papers and dealing with APA style. The unique workbook format offers both a quick reference to APA style and interactive exercises that give you a chance to practice what you've learned.

Note to Readers: Publisher does not guarantee quality or access to any included digital components if book is purchased through a third-party seller. Write an exceptional, impactful DNP project paper! This mentor-in-a-book will help nursing students develop a high-quality, well-organized DNP project paper by using the time-tested, proven IMRaD (Introduction, Methods, Results, and Discussion) format—the gold standard for scientific writing in health care. Far beyond the simple outlines and rubrics usually offered to DNP students, this book provides guidance on how to write a DNP Project that presents scholarly work in an effective way. Written in concise “Fast Facts” format characterized by bulleted information and short paragraphs, this book delivers clear, step-by-step guidance to create each section of the DNP paper. To provide a consistent example of a well-crafted paper, this guide follows a specific clinical topic throughout to clearly demonstrate the paper’s development. It also discusses the foundational knowledge needed prior to writing the paper and presents a step-by-step guide for aligning EBP and QI projects to each IMRaD component. This guide offers key insights into what faculty will expect for each content section and presents talking points for student/faculty discussions. Literature appraisal tables and synthesis tables are presented in the literature review section along with detailed rationale for optimal use. Key Features: Serves as the only DNP resource to embrace the time-tested IMRaD model Describes the necessary components of DNP Project presentation, including dissemination Delivers clear, step-by-step guidance to complete the DNP Project Book chapters progress through the development of a DNP paper Provides faculty tips so instructors can help students produce quality scholarly work Print+CourseSmart

Please purchase this book at its new location at: <http://www.lulu.com/content/paperback-book/producing-the-capstone-project/7450271>

This book develops foundational concepts in probability and statistics with primary applications in mechanical and aerospace engineering. It develops the mindset a data analyst must have to interpret an ill-defined problem, operationalize it, collect or interpret data, and use this evidence to make decisions that can improve the quality of engineered products and systems. It was designed utilizing the latest research in statistics learning and in engagement teaching practices The author’s focus is on developing students’ conceptual understanding of statistical theory with the goal of effective design and conduct of experiments. Engineering statistics is primarily a form of data modeling. Emphasis is placed on modelling variation in observations, characterizing its distribution, and making inferences with regards to quality assurance and control. Fitting multivariate models, experimental design and hypothesis testing are all critical skills developed. All topics are developed utilizing real data from engineering projects, simulations, and laboratory experiences. In other words, we begin with data, we end with models. The key features are: Realistic contexts situating the learning of the statistics in actual engineering practice. A balance of rigorous mathematics, conceptual scaffolding, and real, messy data, to ensure that students learn the important concepts and can apply them in practice. The consistency of text, lecture notes, data sets, and simulations yield a coherent set of instructional resources for the instructor and a coherent set of learning experiences for the students. MatLab is used as a computational tool. Other tools are easily substituted. Table of Contents 1. Introduction 2. Dealing with Variation 3. Types of Data 4. Introduction to Probability 5. Sampling Distribution of the Mean 6. The Ten Building Blocks of Experimental Design 7. Sampling Distribution of the Proportion 8. Hypothesis Testing Using the 1-sample Statistics 9. 2-sample Statistics 10. Simple Linear Regression 11. The General Linear Model: Regression with Multiple Predictors 12. The GLM with Categorical Independent Variables: The Analysis of Variance 13. The General Linear Model: Randomized Block Factorial ANOVA 14. Factorial Analysis of Variance 15. The Bootstrap 16. Data Reduction: Principal Components Analysis Index Author Biography James A. Middleton is Professor of Mechanical and Aerospace Engineering and former Director of the Center for Research on Education in Science, Mathematics, Engineering, and Technology at Arizona State University. Previously, he held the Elmhurst Energy Chair in STEM education at the University of Birmingham in the UK. He received his Ph.D. from the University of Wisconsin-Madison. He has been Senior co-Chair of the Special Interest Group for Mathematics Education in the American Educational Research Association, and as Chair of the National Council of Teachers of Mathematics’ Research Committee. He has been a consultant for the College Board, the Rand Corporation, the National Academies, the American Statistical Association, the IEEE, and numerous school systems around the United States, the UK, and Australia. He has garnered over \$30 million in grants to study and improve mathematics education in urban schools.

How do college students really conduct research for classroom assignments? In 2008, five large Illinois universities were awarded a Library Services and Technology Act Grant to try to answer that question. The resulting ongoing study has already yielded some eye-opening results. The findings suggest changes ranging from simple adjustments in service and resources to modifying the physical layout of the library. In this book the editors, both anthropological researchers have been involved with the project since its beginning. This book: Summarizes the study's history, including its goals, parameters, and methodology; Offers a comprehensive discussion of the research findings, touching on issues such as website design, library instruction for faculty, and meeting the needs of commuter and minority students; Details a number of service reforms which have already been implemented at the participating institutions. This book deepens our understanding of how academic libraries can better serve students' needs, and also serves as a model for other researchers interested in a user-centered approach to evaluating library services.

A comprehensive look at the promise and potential of online learning In our digital age, students have dramatically new learning needs and must be prepared for the idea economy of the future. In Getting Smart, well-known global education expert Tom Vander Ark examines the facets of educational innovation in the United States and abroad. Vander Ark makes a convincing case for a blend of online and onsite learning, shares inspiring stories of schools and programs that effectively offer "personal digital learning" opportunities, and discusses what we need to do to remake our schools into "smart schools." Examines the innovation-driven world, discusses how to combine online and onsite learning, and reviews "smart tools" for learning Investigates the lives of learning professionals, outlines the new employment bargain, examines online universities and "smart schools" Makes the case for smart capital, advocates for policies that create better learning, studies smart cultures

"This research publication accommodates in-depth studies that elucidate both the prospects and problems of learning assessment in higher education"--Provided by publisher.

This book constitutes the thoroughly refereed post-conference proceedings of the First International Conference on E-Learning, E-Education, and Online Training (eLEOT 2014) held in Bethesda, MD, USA, in September 2014. The 22 revised full papers presented were carefully reviewed and selected from numerous submissions and focus topics such as web based tools, augmented reality, mobile learning, teaching frameworks and platforms, virtual learning environments.

"This handbook investigates a variety of ePortfolio uses through case studies, the technology that supports the case studies, and it also explains the conceptual thinking behind current uses as well as potential uses"--Provided by publisher.

This text introduces Taking Flight, a year-long clinical psychology internship program to be implemented for students of color and first-generation college-bound students. The program offers hands-on opportunities for participants to develop skills that will propel them to seek advanced degrees in mental health. The book offers a comprehensive internship curriculum based on a culturally affirming mentorship framework that aims to increase interns' exposure of clinical psychology, build confidence in their ability, and foster a sense of belonging as a means to inspire educational and career pursuits in the field. Chapters cover topics such as common mental health concerns; self-reflections and insights; research and clinical approaches; capstone projects and presentations; and integration of knowledge, skills, and self-concept. An appendix includes worksheets to utilize throughout the course of the program. The program is designed to be operated within psychology departments in partnership with local high schools. The text will guide mental health providers and school professionals to executing this program in the hopes of ensuring a more diverse and inclusive clinical psychology workforce.

This book offers a highly accessible introduction to natural language processing, the field that supports a variety of language technologies, from predictive text and email filtering to automatic summarization and translation. With it, you'll learn how to write Python programs that work with large collections of unstructured text. You'll access richly annotated datasets using a comprehensive range of linguistic data structures, and you'll understand the main algorithms for analyzing the content and structure of written communication. Packed with examples and exercises, Natural Language Processing with Python will help you: Extract information from unstructured text, either to guess the topic or identify "named entities" Analyze linguistic structure in text, including parsing and semantic analysis Access popular linguistic databases, including WordNet and treebanks Integrate techniques drawn from fields as diverse as linguistics and artificial intelligence This book will help you gain practical skills in natural language processing using the Python programming language and the Natural Language Toolkit (NLTK) open source library. If you're interested in developing web applications, analyzing multilingual news sources, or documenting endangered languages -- or if you're simply curious to have a programmer's perspective on how human language works -- you'll find Natural Language Processing with Python both fascinating and immensely useful.

Lecturers, request your electronic inspection copy here This superb guide teaches you how to read critically. Its no-nonsense, practical approach uses a specially developed reading code to help you read articles for your research project; this simple code enables you to decipher journal articles structurally, mechanically and grammatically. Refreshingly free of jargon and written with you in mind, it's packed full of interdisciplinary advice that helps you to decode and critique academic writing. The author's fuss free approach will improve your performance, boost your confidence and help you to: Read and better understand content Take relevant effective notes Manage large amounts of information in an easily identifiable and retrievable format Write persuasively using formal academic language and style. New to this edition: Additional examples across a range of subjects, including education, health and sociology as well as criminology Refined terminology for students in the UK, as well as around the world More examples dealing specifically with journal articles. Clear, focused and practical this handy guide is a great resource for helping you sharpen your use of journal articles and improve your academic writing skills. 'I have used the book over the last five years with my students with great success. The book has helped students to develop their critical thinking, reading and writing skills and when it comes to writing a dissertation they have used the code sheet in their own writing.' - Pete Allison, Head of the Graduate School of Education, University of Edinburgh SAGE Study Skills are essential study guides for students of all levels. From how to write great essays and succeeding at university, to writing your undergraduate dissertation and doing postgraduate research, SAGE Study Skills help you get the best from your time at university. Visit the SAGE Study Skills hub for tips, resources and videos on study success!

Highly anticipated and fully updated, Anatomy of Writing for Publication for Nurses, Third Edition, is a practical and useful guide for nurses who need to bridge the gap from incomplete sentences to a published manuscript. Lead Author and Editor Cynthia Saver removes the fear and confusion most nurses have about the writing and publishing process. Along the way, 25 of nursing's top writing experts and decision makers share important insights to help you increase the likelihood that your manuscript gets accepted for publication.

Do you want to learn R? This book is built on the premise that anyone with a bit of free time and a healthy curiosity can learn to use R in their studies or at work. The authors focus on using R to do useful things like writing reports, creating data and graphs, accessing datasets collected by others, preparing data, and conducting simple data analysis. In this book you'll learn how to: install R and RStudio®, and set up an RStudio® project and folders; write an essay with graphs based on simple real-world data using R Markdown; create variables from everyday numeric information and visualize data through five types of charts—bar plot, histogram, pie chart, scatter plot, and time series line plot—to identify patterns in the data; write and run R programs, and prepare your data following the tidyverse approach; import external datasets into R, install R data packages, and carry out initial data validity checks; conduct exploratory data analysis through three exercises involving data on voting outcomes, natural resource consumption, and gross domestic product (GDP) via data visualization, correlation coefficient, and simple regression; and write a research paper on the impact of GDP per capita on life expectancy using R Markdown. Student-friendly language and examples (such as binge-watched shows on Netflix, and the top 5 songs on Spotify), cumulative learning, and practice exercises make this a must-have guide for a variety of courses where data are used and reports need to be written. Code and datasets used to carry out the examples in the book are available on an accompanying website.

How to Write a BA Thesis is the only book that directly addresses the needs of undergraduate students writing a major paper. This book offers step-by-step advice on how to move from early ideas to finished paper. It covers choosing a topic, selecting an advisor, writing a proposal, conducting research, developing an argument, writing and editing the thesis, and making through a defense. Lipson also acknowledges the challenges that arise when tackling such a project, and he offers advice for breaking through writer's block and juggling school-life demands. This is a must-read for anyone writing a BA thesis, or for anyone who advises these students.

This text covers the technologies of document retrieval, information extraction, and text categorization in a way which highlights commonalities in terms of both general principles and practical concerns. It assumes some mathematical background on the part of the reader, but the chapters typically begin with a non-mathematical account of the key issues. Current research topics are covered only to the extent that they are informing current applications; detailed coverage of longer term research and more theoretical treatments should be sought elsewhere. There are many pointers at the ends of the chapters that the reader can follow to explore the literature. However, the book does maintain a strong emphasis on evaluation in every chapter both in terms of methodology and the results of controlled experimentation.

"In all my whole career the Brick House was one of the toughest joints I ever played in. It was the honky-tonk where levee workers would congregate every Saturday night and

trade with the gals who'd stroll up and down the floor and the bar. Those guys would drink and fight one another like circle saws. Bottles would come flying over the bandstand like crazy, and there was lots of just plain common shooting and cutting. But somehow all that jive didn't faze me at all, I was so happy to have some place to blow my horn." So says Louis Armstrong, a tough kid who just happened to be a musical genius, about one of the places where he performed and grew up. This raucous, rich tale of his early days in New Orleans concludes with his departure to Chicago at twenty-one to play with his boyhood idol King Oliver, and tells the story of a life that began, mythically, on July 4, 1900, in the city that sowed the seeds of jazz.

This book includes a set of rigorously reviewed world-class manuscripts addressing and detailing state-of-the-art research projects in the areas of Engineering Education, Instructional Technology, Assessment, and E-learning. The book presents selected papers from the conference proceedings of the International Conference on Engineering Education, Instructional Technology, Assessment, and E-learning (EIAE 2006). All aspects of the conference were managed on-line.

This book provides a view into the groundbreaking application of ethnographic tools and techniques to the understanding of undergraduate students and their use of information. The publication describes findings of the work at the University of Rochester River Campus Libraries and provides insight into how academic librarians might use these techniques on their own campuses.

Powerful Teacher Education describes the strategies, goals, content, and processes of seven highly successful and long-standing teacher education programs - Alverno College, Bank Street College, Trinity University, University of California, Berkeley, University of Southern Maine, University of Virginia, and Wheelock College. All these colleges and universities have succeeded in preparing teachers to teach diverse learners to achieve high levels of performance and understanding. In discussing the common features of these programs, Linda Darling-Hammond shows what outstanding teacher education models do and how they do it, and what their graduates accomplish as a result. Powerful Teacher Education also examines the policies, organizational features, resources, and relationships that have enabled these programs to succeed.

For more than thirty years Natalie Goldberg has been challenging and cheering on writers with her books and workshops. In her groundbreaking first book, she brings together Zen meditation and writing in a new way. Writing practice, as she calls it, is no different from other forms of Zen practice—"it is backed by two thousand years of studying the mind." This thirtieth-anniversary edition includes new forewords by Julia Cameron and Bill Addison. It also includes a new preface in which Goldberg reflects on the enduring quality of the teachings here. She writes, "What have I learned about writing over these thirty years? I've written fourteen books, and it's the practice here in *Bones* that is the foundation, sustaining and building my writing voice, that keeps me honest, teaches me how to endure the hard times and how to drop below discursive thinking, to taste the real meat of our minds and the life around us."

In order for educational systems not to become stagnant, teaching strategies must be routinely re-evaluated. Not only does this optimize the learning process, but it enhances the overall experience for the students. *Collaboration and Student Engagement in Design Education* is a pivotal reference source for the latest scholarly research on the implementation of teamwork between architecture students in design courses to enrich knowledge attainment and boost creativity. Highlighting pedagogical insights into team building and relevant case studies, this book is ideally designed for educators, students, administrators, and professionals interested in the development of effective design programs.

Concerned by ongoing debates about higher education that talk past one another, the authors of this book show how to move beyond these and other obstacles to improve the student learning experience and further successful college outcomes. Offering an alternative to the culture of compliance in assessment and accreditation, they propose a different approach which they call the Learning System Paradigm. Building on the shift in focus from teaching to learning, the new paradigm encourages faculty and staff to systematically seek out information on how well students are learning and how well various areas of the institution are supporting the student experience and to use that information to create more coherent and explicit learning experiences for students. The authors begin by surveying the crowded terrain of reform in higher education and proceed from there to explore the emergence of this alternative paradigm that brings all these efforts together in a coherent way. The Learning System Paradigm presented in chapter two includes four key elements—consensus, alignment, student-centeredness, and communication. Chapter three focuses upon developing an encompassing notion of alignment that enables faculty, staff, and administrators to reshape institutional practice in ways that promote synergistic, integrative learning. Chapters four and five turn to practice, exploring the application of the paradigm to the work of curriculum mapping and assignment design. Chapter six focuses upon barriers to the work and presents ways to start and options for moving around barriers, and the final chapter explores ongoing implications of the new paradigm, offering strategies for communicating the impact of alignment on student learning. The book draws upon two recent initiatives in the United States: the Tuning process, adapted from a European approach to breaking down siloes in the European Union educational space; and the Degree Qualifications Profile (DQP), a document that identifies and describes core areas of learning that are common to institutions in the US. Many of the examples are drawn from site visit reports, self-reported activities, workshops, and project experience collected by the National Institute for Learning Outcomes Assessment (NILOA) between 2010 and 2016. In that six-year window, NILOA witnessed the use of Tuning and/or the DQP in hundreds of institutions across the nation. Sponsored by the National Institute for Learning Outcomes Assessment (NILOA)

A new collection explores the complex role of visual representation in science.

The only practical guide for helping social work students create high-quality applied capstone research projects from start to finish This "mentor-in-a-book" provides social work students with invaluable information on designing, implementing, and presenting first-rate applied research projects focused on improving social work programs and services. Taking students step-by-step through the entire process, the book helps students plan their projects by providing descriptions of the various research methodologies that can be used to improve social work programs and services. It offers extensive instruction on how to write effectively by providing detailed information on all written components of capstone research projects, as well as the dos and don'ts of writing research reports. Covering data collection methods, program evaluation, organization and community needs assessments, practice-effectiveness studies, and quantitative and qualitative data analysis, this brand-new book also addresses best practices for presenting findings upon completion of the applied research project. Additional features include abundant case examples demonstrating the application of theory to practice and an examination of both qualitative and quantitative research approaches, while also helping students demonstrate social work practice competencies within their capstone projects. Practice activities in each chapter help students apply knowledge to their research projects; and technology exercises help students master important digital research techniques. A capstone project checklist and competency log help students monitor

progress, and QR codes provide supplementary support and resources. Additional resources include competency rubrics, detailed group exercises for each chapter, and a sample syllabus for faculty. Purchase of the book includes digital access for use on most mobile devices or computers. Key Features: Delivers step-by-step information on creating high-quality social work capstone projects from conception through presentation Includes a detailed summary of the major applied research approaches to improving social work programs and services Explains how to research literature and write a problem statement on a social service issue Contains extensive information on how to write effective capstone research papers along with abundant examples Helps students to demonstrate social work practice competencies Offers case examples throughout to demonstrate the application of theory to practice Presents practice activities and technology exercises in each chapter Provides a capstone project checklist and competency log Includes QR codes providing additional resources for each chapter

Enrich your students and the institution with a high-impact practice *Designing and Teaching Undergraduate Capstone Courses* is a practical, research-backed guide to creating a course that is valuable for both the student and the school. The book covers the design, administration, and teaching of capstone courses throughout the undergraduate curriculum, guiding departments seeking to add a capstone course, and allowing those who have one to compare it to others in the discipline. The ideas presented in the book are supported by regional and national surveys that help the reader understand what's common, what's exceptional, what works, and what doesn't within capstone courses. The authors also provide additional information specific to different departments across the curriculum, including STEM, social sciences, humanities, fine arts, education, and professional programs. Identified as a high-impact practice by the National Survey of Student Engagement (NSSE) and the Association of American Colleges and Universities' LEAP initiative, capstone courses culminate a student's final college years in a project that integrates and applies what they've learned. The project takes the form of a research paper, a performance, a portfolio, or an exhibit, and is intended to showcase the student's very best work as a graduating senior. This book is a guide to creating for your school or department a capstone course that ties together undergraduate learning in a way that enriches the student and adds value to the college experience. Understand what makes capstone courses valuable for graduating students Discover the factors that make a capstone course effective, and compare existing programs, both within academic disciplines and across institutions Learn administrative and pedagogical techniques that increase the course's success Examine discipline-specific considerations for design, administration, and instruction Capstones are generally offered in departmental programs, but are becoming increasingly common in general education as well. Faculty and administrators looking to add a capstone course or revive an existing one need to understand what constitutes an effective program. *Designing and Teaching Undergraduate Capstone Courses* provides an easily digested summary of existing research, and offers expert guidance on making your capstone course successful.

Teaching Sport Management: A Practical Guide provides sport management educators with the techniques and tools they need to teach more effectively. Educators will learn about instructional strategies, incorporating technology into the classroom, developing a course, utilizing outcome assessment, and how to enhance learning through effective teaching. The ideas covered in this text can easily be implemented by first-time instructors or more experienced faculty.

Even students capable of writing excellent essays still find their first major political science research paper an intimidating experience. Crafting the right research question, finding good sources, properly summarizing them, operationalizing concepts and designing good tests for their hypotheses, presenting and analyzing quantitative as well as qualitative data are all tough-going without a great deal of guidance and encouragement. *Writing a Research Paper in Political Science* breaks down the research paper into its constituent parts and shows students what they need to do at each stage to successfully complete each component until the paper is finished. Practical summaries, recipes for success, worksheets, exercises, and a series of handy checklists make this a must-have supplement for any writing-intensive political science course. New to the Fourth Edition: A non-causal research paper woven throughout the text offers explicit advice to guide students through the research and writing process. Updated and more detailed discussions of plagiarism, paraphrases, "drop-ins," and "transcripts" help to prevent students from misusing sources in a constantly changing digital age. A more detailed discussion of "fake news" and disinformation shows students how to evaluate and choose high quality sources, as well as how to protect oneself from being fooled by bad sources. Additional guidance for writing abstracts and creating presentations helps students to understand the logic behind abstracts and prepares students for presentations in the classroom, at a conference, and beyond. A greater emphasis on the value of qualitative research provides students with additional instruction on how to do it.

The Doctor of Nursing Practice Project: A Framework for Success, Third Edition provides the foundation for the scholarl process enabling DNP students to work through their project in a more effective, efficient manner.

This volume is a timely intervention that not only helps demystify the idea of a digital dissertation for students and their advisors, but will be broadly applicable to the work of librarians, administrators, and anyone else concerned with the future of graduate study in the humanities and digital scholarly publishing. Roxanne Shirazi, The City University of New York Digital dissertations have been a part of academic research for years now, yet there are still many questions surrounding their processes. Are interactive dissertations significantly different from their paper-based counterparts? What are the effects of digital projects on doctoral education? How does one choose and defend a digital dissertation? This book explores the wider implications of digital scholarship across institutional, geographic, and disciplinary divides. The volume is arranged in two sections: the first, written by senior scholars, addresses conceptual concerns regarding the direction and assessment of digital dissertations in the broader context of doctoral education. The second section consists of case studies by PhD students whose research resulted in a natively digital dissertation that they have successfully defended. These early-career researchers have been selected to represent a range of disciplines and institutions. Despite the profound effect of incorporated digital tools on dissertations, the literature concerning them is limited. This volume aims to provide a fresh, up-to-date view on the digital dissertation, considering the newest technological advances. It is especially relevant in the European context where digital dissertations, mostly in arts-based research, are more popular. *Shaping the Digital Dissertation* aims to provide insights, precedents and best practices to graduate students, doctoral advisors, institutional agents, and dissertation committees. As digital dissertations have a potential impact on the state of research as a whole, this edited collection will be a useful resource for the wider academic community and anyone interested in the future of doctoral studies.

The recent widespread rejection of conventional theory and method has led to the evolution of different ways of gathering and analyzing data. This accessible textbook introduces

key research methods that challenge psychology's traditional preoccupation with 'scientific' experiments. The book provides a well-structured guide to methods, containing a range of qualitative approaches (for example, semi-structured interviews, grounded theory, discourse analysis) alongside a reworking of quantitative methods to suit contemporary psychological research. A number of chapters are also explicitly concerned with research as a dynamic interactive process. The internationally respected contributors steer the reader through the main stages of conducting a study using these methods.

Getting SmartHow Digital Learning is Changing the WorldJohn Wiley & Sons

This book is a simple yet thorough introduction to Q methodology, a research technique designed to capture the subjective or first-person viewpoints of its participants. Watts and Stenner outline the key theoretical concepts developed by William Stephenson, the founder of Q methodology, including subjectivity, concourse theory and abduction. They then turn to the practicalities of delivering high quality Q methodological research. Using worked examples throughout, the reader is guided through: • important design issues • the conduct of fieldwork • all the analytic processes of Q methodology, including factor extraction, factor rotation and factor interpretation. Drawing on helpful conceptual introductions to potentially difficult statistical concepts and a step-by-step guide to running Q methodological analyses using dedicated software, this book enables interested readers to design, manage, analyse, interpret and publish their own Q methodological research.

This essential book takes students and instructors through steps undertaken in a start-to-finish engineering project as conceived and presented in the engineering capstone course. The learning experience follows an industry model to prepare students to recognize a need for a product or service, create and work in a team; identify competition, patent overlap, and necessary resources, generate a project proposal that accounts for business issues, prepare a design, develop and fabricate the product or service, develop a test plan to evaluate the product or service, and prepare and deliver a final report and presentation. Throughout the book, students are asked to examine the business viability aspects of the project. The Engineering Capstone Course: Fundamentals for Students and Instructors emphasizes that a design must meet a set of realistic technical specifications and constraints including examination of attendant economics, environmental needs, sustainability, manufacturability, health and safety, governmental regulations, industry standards, and social and political constraints. The book is ideal for instructors teaching, or students working through, the capstone course.

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