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About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Engineered to Speak: Helping You Create and Deliver Engaging Technical Presentations Technical expertise alone is not enough to ensure professional success. Twenty-first century engineers and technical professionals must master making the complex simple and the simple interesting. This book helps engineers do what they love most: take a complicated system and create a stronger solution. You will learn tips and strategies that help you answer one essential question, "How can I get better at sharing my ideas with a variety of audiences?" In Engineered to Speak, Alexa Chilcutt and Adam Brooks combine their expertise in messaging and public speaking with research that illustrates how effective communication contributes to career advancement. Each chapter contains inspiring stories from practicing engineers around the world as well as useful examples, exercises and repeatable processes for creating compelling messages. This book helps technical talent become better speakers, better communicators, and ultimately better leaders. This helpful guide

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demystifies the art of oral communication by breaking it down into ten easy-to-follow-processes that can improve the ability of professionals at any level. By the end of Engineered to Speak, you'll understand how to gain buy-in, identify and expand your Sphere of Influence, amplify your message, deliver compelling presentations, and learn from those who've embrace these skills and enjoyed professional success.

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This book constitutes the strictly refereed post-workshop proceedings of the Second International Workshop on Graphics Recognition, GREC'97, held in Nancy, France, in August 1997. The 34 thoroughly revised full papers presented were carefully selected for inclusion in the book on the basis of a second round of post-workshop reviewing. The book is divided into sections on vectorization and segmentation, symbol recognition, form processing, map processing, engineering drawings, applications and systems, performance evaluation, and a graphics recognition contest.

You may know Dude Perfect from their mind-blowing, world record-breaking, viral trick shot videos and hilarious Overtime videos! NOW, with the guys' new, massive, photo-intensive book Dude Perfect 101 Tricks, Tips, and Cool Stuff, you'll experience a behind-the-scenes look at their stunts and their personal lives, PLUS step-by-step instructions so you can attempt their tricks at home! At Dude Perfect, we do everything we can to bring families closer together, and that's why we're excited to share this book with you. Follow our step-by-

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step instructions to have your own Dude Perfect–style fun! Tweens and teens, ages 8 to 12, will enjoy complete panda-monium with this in-depth look at Dude Perfect: five guys who are kickin' it, throwin' it, tossin' it, and shootin' it for more than 55 million YouTube subscribers and more than twelve billion views. With an oversize format and fun, informative graphics, Dude Perfect 101 Tricks, Tips, and Cool Stuff includes . . . Step-by-step instructions to perform your own real life trick shots using everyday objects. A behind-the-scenes view of those hilarious Overtime videos and extreme sports moments. Dude Perfect teaching about what a blast patience, perseverance, teamwork, friendship, and faith can be. Fun science facts behind the seemingly impossible tricks—because really, how did they do that?!

Infographics with "No way!" truths from the inspirational to the absurd. A deeper look into each Dude's personal life, including stats, favorite stunts, and insights. Each trick in Dude Perfect 101 Tricks, Tips, and Cool Stuff is the perfect combination of challenging and doable to keep your young reader off-screen for hours. This interactive book is a great gift for birthdays, Easter baskets, holiday gift giving, or just because. Whether your own trickster wants to perform solo, challenge a friend, or host a family date night, this visually engaging book is a slam dunk for anyone who is young at heart. This book was designed to help students acquire requisite knowledge and practical skills in technical drawing presentation and practices. The contents were scripted to prepare students for technical, diploma and degree examinations in engineering

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technology, technical vocations and draughtsmanship in other professions in the monotronics, polytechnics and universities. At the end of each chapter are lists of examination standard exercises that will help students perfect their skill and proficiency in technical drawing works. Therefore, student should be able to; Understand the principles and techniques of drawing presentation and projections in geometry Understand the applications of solid geometry Understand the principles and application of free hand sketching Understand the principles of constructing conic-sections and development of surfaces

Advances in biotechnologies for human enhancement and designer babies appear to offer us new hope in medicine, but capitalism may incentivize the selection of traits for profit. Engineering Perfection: Solidarity, Disability, and Well-being offers an opposing Marxist view, one that embraces human vulnerability and embodied difference.

Now in its 4th edition, Manual of Engineering Drawing is a long-established guide for practicing and student engineers to producing engineering drawings and annotated 3D models that comply with the latest BSI and ISO standards of technical product specifications and documentation. This new edition has been updated in line with recent standard revisions and amendments, including the requirements of BS8888 2011 and related ISO

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standards. Ideal for international use, it includes a guide to the fundamental differences between the relevant ISO and ASME standards, as well as new information on legal aspects such as patents and copyright, and end-of-life design considerations. Equally applicable to CAD and manual drawing, the book includes the latest developments in 3D annotation and the specification of surface texture. Its broad scope also encompasses topics such as orthographic and pictorial projections, dimensional, geometrical and surface tolerancing, and the duality principle, along with numerous examples of electrical and hydraulic diagrams with symbols and applications of cams, bearings, welding and adhesives. Seen by many as an essential design reference, *Manual of Engineering Drawing* is an ideal companion for students studying vocational courses in technical product specification, undergraduates studying engineering or product design, and professional engineers beginning a career in design. Expert interpretation of the rules and conventions provided by authoritative authors who regularly lead and contribute to BSI and ISO committees on product standards. Combines the latest technical information with clear, readable explanations, numerous diagrams and traditional geometrical construction techniques. Includes new material on patents, copyrights and intellectual property, design for manufacture and end-of-life, and

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surface finishing considerations

The primary objective of this book is to provide an easy approach to the basic principles of Engineering Drawing, which is one of the core subjects for undergraduate students in all branches of engineering. Further, it offers comprehensive coverage of topics required for a first course in this subject, based on the author's years of experience in teaching this subject. Emphasis is placed on the precise and logical presentation of the concepts and principles that are essential to understanding the subject. The methods presented help students to grasp the fundamentals more easily. In addition, the book highlights essential problem-solving strategies and features both solved examples and multiple-choice questions to test their comprehension.

The Principles and Techniques of Engineering Estimating explains the procedures relating to the field of engineering estimating. Organized into 15 chapters, this book begins with an explanation of the meaning and scope of estimating. Subsequent chapters discuss the development of forms and types of estimates, basic steps in estimating, engineering estimating elements, work measurement, and estimating for mass production. Other chapters explain the aids to estimating, drawing technology, the importance of human relations, capital cost estimating, investment appraisal, and corporate strategy. This book will be

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very useful to any manager, student or estimator.

The Manual of Engineering Drawing has long been the recognised as a guide for practicing and student engineers to producing engineering drawings and annotated 3D models that comply with the latest British and ISO Standards of Technical Product Specifications and Documentation. This new edition has been updated to include the requirements of BS8888 2008 and the relevant ISO Standards, and is ideal for International readership; it includes a guide to the fundamental differences between the ISO and ASME Standards relating to Technical Product Specification and Documentation. Equally applicable to CAD and manual drawing it includes the latest development in 3D annotation and the specification of surface texture. The Duality Principle is introduced as this important concept is still very relevant in the new world of 3D Technical Product Specification. Written by members of BSI and ISO committees and a former college lecturer, the Manual of Engineering Drawing combines up to the minute technical information with clear, readable explanations and numerous diagrams and traditional geometrical construction techniques rarely taught in schools and colleges. This approach makes this manual an ideal companion for students studying vocational courses in Technical Product Specification, undergraduates studying engineering or product design and any budding engineer

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beginning a career in design. The comprehensive scope of this new edition encompasses topics such as orthographic and pictorial projections, dimensional, geometrical and surface tolerancing, 3D annotation and the duality principle, along with numerous examples of electrical and hydraulic diagrams with symbols and applications of cams, bearings, welding and adhesives. \* The definitive guide to draughting to the latest ISO and ASME standards \* An essential reference for engineers, and students, involved in design engineering and product design \* Written by two ISO committee members and practising engineers.

This book is meant for the Engineering Drawing course offered to the students of all engineering disciplines in their first year. An important highlight of this book is the inclusion of practical hints along with theory which would enable the students to make perfect drawings.

The revered New York Times bestselling author traces the development of technology from the Industrial Age to the Digital Age to explore the single component crucial to advancement—precision—in a superb history that is both an homage and a warning for our future. The rise of manufacturing could not have happened without an attention to precision. At the dawn of the Industrial Revolution in eighteenth-century England, standards of measurement were established, giving way to the development of

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machine tools—machines that make machines.

Eventually, the application of precision tools and methods resulted in the creation and mass production of items from guns and glass to mirrors, lenses, and cameras—and eventually gave way to further breakthroughs, including gene splicing, microchips, and the Hadron Collider. Simon Winchester takes us back to origins of the Industrial Age, to England where he introduces the scientific minds that helped usher in modern production: John Wilkinson, Henry Maudslay, Joseph Bramah, Jesse Ramsden, and Joseph Whitworth. It was Thomas Jefferson who later exported their discoveries to the fledgling United States, setting the nation on its course to become a manufacturing titan. Winchester moves forward through time, to today's cutting-edge developments occurring around the world, from America to Western Europe to Asia. As he introduces the minds and methods that have changed the modern world, Winchester explores fundamental questions. Why is precision important? What are the different tools we use to measure it? Who has invented and perfected it? Has the pursuit of the ultra-precise in so many facets of human life blinded us to other things of equal value, such as an appreciation for the age-old traditions of craftsmanship, art, and high culture? Are we missing something that reflects the world as it is, rather than the world as we think we would wish it to be? And

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can the precise and the natural co-exist in society?

This concise reference helps readers avoid the most commonplace errors in generating or interpreting engineering drawings. Applicable across multiple disciplines, Hanifan's lucid treatment of such essential skills as understanding and conveying data in a drawing, exacting precision in dimension and tolerance notations, and selecting the most-appropriate drawing type for a particular engineering situation, "Perfecting Engineering and Technical Drawing" is an valuable resource for practicing engineers, engineering technologists, and students. Provides straightforward explanation of the requirements for all common engineering drawing types Maximizes reader understanding of engineering drawing requirements, differentiating the types of drawings and their particular characteristics Elucidates electrical reference designation requirements, geometric dimensioning, and tolerancing errors Explains the entire engineering documentation process from concept to delivery Against the background of the so-called 'obesity epidemic', Media and the Rhetoric of Body Perfection critically examines the discourses of physical perfection that pervade Western societies, shedding new light on the rhetorical forces behind body anxieties and extreme methods of weight loss and beautification. Drawing on rich interview material with cosmetic surgery patients and offering fresh

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analyses of various texts from popular culture, including internationally-screened reality-television shows including The Biggest Loser, Extreme Makeover and The Swan as well as entertainment programs and documentaries, this book examines the ways in which Western media capitalize on body anxiety by presenting physical perfection as a moral imperative, while advertising quick and effective transformation methods to erase physical imperfections. With attention to contemporary lines of resistance to standards of thinness and attempts to redefine conceptions of beauty, *Media and the Rhetoric of Body Perfection* will appeal to scholars and students of popular culture, television, media and cultural studies, as well as the sociology of the body, feminist thought, body transformation and cosmetic surgery.

"History of the American society of mechanical engineers. Preliminary report of the committee on Society history," issued from time to time, beginning with v. 30, Feb. 1908. The *Manual of Engineering Drawing* has long been recognised as the student and practising engineer's guide to producing engineering drawings that comply with ISO and British Standards. The information in this book is equally applicable to any CAD application or manual drawing. The second edition is fully in line with the requirements of the new British Standard BS8888: 2002, and will help engineers, lecturers and students with the transition to the new standards. BS8888 is fully based on the relevant ISO standards, so this book is also ideal for an international readership. The comprehensive scope of this book

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encompasses topics including orthographic, isometric and oblique projections, electric and hydraulic diagrams, welding and adhesive symbols, and guidance on tolerancing. Written by a member of the ISO committee and a former college lecturer, the Manual of Engineering Drawing combines up-to-the-minute technical accuracy with clear, readable explanations and numerous diagrams. This approach makes this an ideal student text for vocational courses in engineering drawing and undergraduates studying engineering design / product design. Colin Simmons is a member of the BSI and ISO Draughting Committees and an Engineering Standards Consultant. He was formerly Standards Engineer at Lucas CAV. \* Fully in line with the latest ISO Standards \* A textbook and reference guide for students and engineers involved in design engineering and product design \* Written by a former lecturer and a current member of the relevant standards committees

Breakthroughs in genetics present us with a promise and a predicament. The promise is that we will soon be able to treat and prevent a host of debilitating diseases. The predicament is that our newfound genetic knowledge may enable us to manipulate our nature—to enhance our genetic traits and those of our children. Although most people find at least some forms of genetic engineering disquieting, it is not easy to articulate why. What is wrong with re-engineering our nature? The Case against Perfection explores these and other moral quandaries connected with the quest to perfect ourselves and our children. Michael Sandel argues that the pursuit of perfection is flawed for reasons that go beyond safety and fairness. The drive to enhance human nature through genetic technologies is objectionable because it represents a bid for mastery and dominion that fails to appreciate the gifted character of human powers and achievements. Carrying us beyond familiar terms of political

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discourse, this book contends that the genetic revolution will change the way philosophers discuss ethics and will force spiritual questions back onto the political agenda. In order to grapple with the ethics of enhancement, we need to confront questions largely lost from view in the modern world. Since these questions verge on theology, modern philosophers and political theorists tend to shrink from them. But our new powers of biotechnology make these questions unavoidable. Addressing them is the task of this book, by one of America's preeminent moral and political thinkers.

A life lesson that all parents want their children to learn: It's OK to make a mistake. In fact, hooray for mistakes! A mistake is an adventure in creativity, a portal of discovery. A spill doesn't ruin a drawing—not when it becomes the shape of a goofy animal. And an accidental tear in your paper? Don't be upset about it when you can turn it into the roaring mouth of an alligator. An award winning, best-selling, one-of-a-kind interactive book, *Beautiful Oops!* shows young readers how every mistake is an opportunity to make something beautiful. A singular work of imagination, creativity, and paper engineering, *Beautiful Oops!* is filled with pop-ups, lift-the-flaps, tears, holes, overlays, bends, smudges, and even an accordion "telescope"—each demonstrating the magical transformation from blunder to wonder.

"Though ours is an age of high technology, the essence of what engineering is and what engineers do is not common knowledge. Even the most elementary of principles upon which great bridges, jumbo jets, or super computers are built are alien concepts to many. This is so in part because engineering as a human endeavor is not yet integrated into our culture and intellectual tradition. And while educators are currently wrestling with the problem of introducing technology into conventional academic curricula, thus better preparing today's students for life in a world increasingly technological,

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there is as yet no consensus as to how technological literacy can best be achieved. " I believe, and I argue in this essay, that the ideas of engineering are in fact in our bones and part of our human nature and experience. Furthermore, I believe that an understanding and an appreciation of engineers and engineering can be gotten without an engineering or technical education. Thus I hope that the technologically uninitiated will come to read what I have written as an introduction to technology. Indeed, this book is my answer to the questions 'What is engineering?' and 'What do engineers do?'" - Henry Petroski, *To Engineer is Human*

*Technical Drawing and Engineering Graphics*, Fourteenth Edition, provides a clear, comprehensive introduction and detailed, easy-to-use reference to creating 2D documentation drawings and engineering graphics by hand or using CAD. It offers excellent technical detail, up-to-date standards, motivating real-world examples, and clearly explained theory and technique in a colorful, highly visual, concisely written format. Designed as an efficient tool for busy, visually oriented learners, this edition expands on well-tested material, bringing its content up-to-date with the latest standards, materials, industries and production processes. Colored models and animations bring the material to life for the student on the book's companion website. Updated exercises that feature sheet metal and plastic parts are a part of the excellent Giesecke problem set.

This book tries to capture the major topics that fall under the umbrella of "Variation Management." The book is laid out so that the reader can easily understand the variation management process and how each chapter maps to

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this process. This book has two purposes. It is a "one-step" resource for people who want to know everything about dimensional management and variation management. It is a useful reference for specific target audiences within the variation management process. This book includes many new techniques, methodologies, and examples that have never been published before. Much of the new material revolves around Six Sigma techniques that have evolved within the past 5 years. This book offers high level information and expertise to a broad spectrum of readers, while providing detailed information for those needing specific information. The contributors are practitioners who have hands-on experience. Much of the expertise in this book is a result of identifying needs to solve problems in our companies and businesses. Many of the chapters are the documented solutions to these needs.

Quick sketching is the best technique you can use to stay finely tuned and to keep those creative juices flowing. To keep your sense of observation heightened, and to sharpen your hand-eye coordination, an animator needs to constantly draw and sketch. Quick Sketching with Ron Husband offers instruction to quick sketching and all its techniques. From observing positive and negative space and learning to recognize simple shapes in complex forms to action analysis and using line of action, this Disney legend teaches you how to sketch using all these components, and how to do it in a matter of seconds. On top of instruction and advice, you'll also see Ron's portfolio of select art representing his growth as an artist throughout the years. Watch his drawings as

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he grows from a young, talented artist, to a true Disney animator. Follow him as he goes around the world and sketches flamenco dancers, football players, bakers, joggers, lions, tigers, anyone, and anything. As if instruction and inspiration in one place weren't enough, you'll find a sketchbook included, so you can flip from Ron's techniques and work on perfecting basic shapes. Or take your book on the road, read Ron's advice, sketch away, capture the world around you.

Solar energy is available all over the world in different intensities. Theoretically, the solar energy available on the surface of the earth is enough to support the energy requirements of the entire planet. However, in reality, progress and development of solar science and technology depends to a large extent on human desires and needs. This is due to the various barriers to overcome and to deal with the economics of practical utilization of solar energy. This book introduces the rapid development and progress in the field of solar energy applications for science and technology: the advancement in the field of biological processes & chemical processes; electricity production; and mechanical operations & building operations enhanced by solar energy. The volume covers bio-hydrogen production and other biological processes related to solar energy; chemical processes for the production of hydrogen from water and other endothermic processes using solar energy; the development of thermo-electric production through solar energy; the development of solar ponds for electric energy production; and the mechanical operation with solar energy; the building

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operation with solar energy optimization and urban planning. This book is an invaluable resource for scientists who need the scientific and technological knowledge of the wide coverage of solar energy sciences and engineering applications. This will further encourage researchers, scientists, engineers and students to stimulate the use of solar energy as an alternative energy source.

Change the way you look at office supplies forever with this wonderfully enlightening and quirky exploration of the fascinating backstories of everyday objects, such as the humble and perfectly designed paper clip and the utilitarian, irreplaceable pencil. How many of humanity's brightest ideas started out on a scrap of paper or in the margins of a notebook? In a delightfully witty and fresh voice, James Ward—cofounder of the Boring Conference and collector of the arcane—explores the secret histories of deskbound supplies, from pencils to fluorescent ink, and the gleaming reams of white paper we all take for granted, encouraging a deeper appreciation and fascination for the things that surround us each day. In the spirit of *The Evolution of Useful Things* and *A History of the World in 100 Objects*, Ward transforms the mundane into remarkable stories of invention, discovery, and even awe. *The Perfection of the Paper Clip* is “a hugely entertaining experience for the reader...this engaging book is an absolute must” (Booklist).

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