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The second edition of Communication Skills for Engineers brings in a sound understanding and insight into the dynamics of communication in all spheres of life interpersonal, social and professional. The book hinges on the premise that effective communication is an outcome of using the right combination of skills alongside an appropriate attitude.

Primarily written to aid self-study, this guide offers advice to engineers and other scientific professionals on good technical writing. Engineering educator Haile presents seven chapters on words and phrases, strong sentences, coherent paragraphs, punctuation, equations, tables, graphics. and overall style. Macatea Productions is a print-on-demand publisher. Annotation copyrighted by Book News, Inc., Portland, OR

The Volta River Basin (VRB) is an important transboundary basin in West Africa

that covers approximately 410,000 square kilometres across six countries: Benin, Burkina Faso, Côte d'Ivoire, Ghana, Mali and Togo. Its natural resources sustain the livelihoods of its population and contribute to economic development. This book provides a comprehensive, interdisciplinary review and assessment of the issues and challenges faced. The authors provide a science-based assessment of current and future scenarios of water availability, the demands of key sectors, including agriculture and hydropower, and the environment under changing demographic, economic, social and climatic conditions. They also identify solutions and strategies that will allow available water resources to be sustainably used to improve agricultural productivity, food security and economic growth in the VRB. Overall, the work examines from a multidisciplinary and multi-stakeholder perspective the solutions and strategies to improve the use of water and other natural resources in the VRB to achieve enhanced food security, livelihoods and economic growth.

A Txtbook of Engineering Physics is written with two distinct objectives:to provied a single source of information for engineering undergraduates of different specializations and provied them a solid base in physics.Successivs editions of the book incorporated topic as required by students pursuing their studies in various universities.In this new edition the contents are fine-tuned,modeinized

and updated at various stages.

This book highlights a range of new approaches and concepts in the field of software engineering. Based on systematic methods, graphical and formal models, the approaches are designed for solving practical problems encountered in actual software development. The book is divided into 13 chapters, which address core aspects such as security, performance and quality measurement. Chiefly intended to stimulate new research by presenting real problems faced by the industry, and to facilitate software development by applying precisely defined, validated and efficient models and methods, the book offers a valuable guide – for researchers and industry practitioners at small, medium and large companies alike.

As energy produced from renewable sources is increasingly integrated into the electricity grid, interest in energy storage technologies for grid stabilisation is growing. This book reviews advances in battery technologies and applications for medium and large-scale energy storage. Chapters address advances in nickel, sodium and lithium-based batteries. Other chapters review other emerging battery technologies such as metal-air batteries and flow batteries. The final section of the book discusses design considerations and applications of batteries in remote locations and for grid-scale storage. Reviews advances in battery

technologies and applications for medium and large-scale energy storage Examines battery types, including zing-based, lithium-air and vanadium redox flow batteries Analyses design issues and applications of these technologies Engineering Metrology and Measurements is a textbook designed for students of mechanical, production and allied disciplines to facilitate learning of various shop-floor measurement techniques and also understand the basics of mechanical measurements.

This book provides a detailed study of geometrical drawing through simple and well-explained worked-out examples. It is designed for first-year engineering students of all branches. The book is divided into seven modules. A topic is introduced in each chapter of a module with brief explanations and necessary pictorial views. Then it is discussed in detail through a number of worked-out examples, which are explained using step-by-step procedure and illustrating drawings. Module A covers the fundamentals of manual drafting, lettering, freehand sketching and dimensioning of views. Module B describes two-dimensional drawings like geometrical constructions, conics, miscellaneous curves and scales. Three-dimensional drawings, such as projections of points, lines, plane lamina, geometrical solids and sections of them are well explained in Module C. Module D deals with intersection of surfaces and their developments.

Drawing of pictorial views is illustrated in Module E, which includes isometric projection, oblique projection and perspective projections. Module F covers the fundamentals of machine drawing. Finally, in Module G the book introduces computer-aided drafting (CAD) to make the readers familiar with the state-of-the-art techniques of drafting. Key Features : Follows the International Standard Organization (ISO) code of practice for drawing. Includes a large number of dimensioned illustrations, worked-out examples, and university questions and answers to explain the geometrical drawing process. Contains chapter-end exercises to help students develop their drawing skills.

AI is an emerging discipline of computer science. It deals with the concepts and methodologies required for computer to perform an intelligent activity. The spectrum of computer science is very wide and it enables the computer to handle almost every activity, which human beings could. It deals with defining the basic problem from viewpoint of solving it through computer, finding out the total possibilities of solution, representing the problem from computational orientation, selecting data structures, finding the solution through searching the goal in search space dealing the real world uncertain situations etc. It also develops the techniques for learning and understanding, which make the computer able to exhibit an intelligent behavior. The list is exhaustive and is applied now a days in

almost every field of technology. This book presents almost all the components of AI like problem solving, search techniques, knowledge concepts, expert system and many more in a very simple language. One of the unique features of this book is inclusion of number of solved examples; in between the chapters and also at the end of many chapters. Real life examples have been discussed to make the reader conversant with the intricate phenomenon of computer science in general, and artificial intelligence in particular. The book is primarily developed for undergraduate and postgraduate engineering students.

This book presents the generative rules for formal written communication, in an engineering context, through the lens of mathematics. Aimed at engineering students headed for careers in industry and professionals needing a "just in time" writing resource, this pragmatic text covers all that engineers need to become successful workplace writers, and leaves out all pedagogical piffle they do not. Organized into three levels of skill-specific instruction, A Math-Based Writing System for Engineers: Sentence Algebra & Document Algorithms guides readers through the process of building accurate, precise sentences to structuring efficient, effective reports. The book's indexed design provides convenient access for both selective and comprehensive readers, and is ideal for university students; professionals seeking a thorough, "left -brained" treatment of

English grammar and "go to" document structures; and ESL engineers at all levels.

This book constitutes the proceedings of the 4th Enterprise Engineering Working Conference (EEWC), held in Funchal, Madeira Island, Portugal, during May 5-8, 2014. EEWC aims at addressing the challenges that modern and complex enterprises are facing in a rapidly changing world. The participants of the working conference share a belief that dealing with these challenges requires rigorous and scientific solutions, focusing on the design and engineering of enterprises. The goal of EEWC is to stimulate interaction between the different stakeholders, scientists, as well as practitioners, interested in making enterprise engineering a reality. The 13 papers presented were carefully reviewed and selected for inclusion in the book. EEWC 2014 had 42 submissions and accepted 13 for publication. The topics of the presented papers allowed for active participation in interesting discussions and exchange of ideas and stimulated future cooperation among the participants. This made EEWC a real "working conference" contributing to the further development of enterprise engineering as a mature discipline. Topics covered include: enterprise engineering in general, the DEMO methodology, the REA ontology, financial applications, business processes management and enterprise simulation.

Read this book before you write your thesis or journal paper! Communicating Science is a textbook and reference on scientific writing oriented primarily at researchers in the physical sciences and engineering. It is written from the perspective of an experienced researcher. It draws on the authors' experience of teaching and working with both native English speakers and English as a Second Language (ESL) writers. For the range of topics covered, this book is relatively short and tersely written, in order to appeal to busy researchers. Communicating Science offers comprehensive guidance on: Research reports: journal papers, theses, and internal reportsReview and publication processConference and seminar presentations: lectures and postersResearch proposalsBusiness plansPatentsPopular mediaCorrespondence, CV's, and job huntingWriting well: writing strategies and guidance on English composition and grammar Graduate students and early career researchers will be guided through the researcher's basic communication tasks: writing theses, journal papers, and internal reports, presenting lectures and posters, and preparing research proposals. Extensive best practice examples and analyses of common problems are presented. Advanced researchers who aim to commercialize their research results will be introduced to business plans and patents, so that they can communicate optimally with patent attorneys and business analysts. Likewise, advanced researchers will be assisted in conveying the results of their research to the industrial and business community, governmental circles, and the general public in the chapter on popular

media. Researchers at all levels will find the chapter on CV's and job hunting helpful. The Writing Well chapter will assist researchers to improve their English usage in scientific writing. This chapter is oriented both at native English speakers, who have an intuitive command of English but often lack formal instruction on grammar and structure, and non-native English writers, who often have had formal instruction but lack intuitive grasp of what sounds good. Mentors will find the book a useful tool for systematically guiding their students in their early writing efforts. If your students read this book first, you will save time! Communicating Science may serve as a textbook for graduate level courses in scientific writing.

During the eight years since the publication of Maintenance Excellence: Optimizing Equipment Life-Cycle Decisions the business environment has changed drastically. Globalization, consolidation, and changes in technology challenge asset management and maintenance professionals to be more efficient. Globalization and consolidation have been particularly instrumental in the changes in maintenance standards, approaches, and the use of technology to become more efficient and cost effective. Reflecting all this and more, the second edition has been renamed: Asset Management Excellence: Optimizing Equipment Life-Cycle Decisions. New in the Second Edition: Two new chapters on Maintenance Management Fundamentals Coverage of leadership issues, the implementation of new processes, and change management Discussion of the design stage and key factors for successful implementation

Understanding the dynamic influences and optimization of spares management Updated case studies Introduction to new software packages that optimize a variety of maintenance and replacement decisions Although there have been patterns and trends that have emerged around the world in asset management, the root principles are the same—personnel with tools go out to address the needs of maintaining assets. However, many of the tools, technologies, and thought processes have evolved and matured to allow a rethinking of the deeper maintenance processes. For this edition, a new set of authors and contributors have revisited the content, updated information, and added new content based on the passage of time, changes in thinking, and the introduction and improvement in technologies.

This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1908 edition. Excerpt: ... the curve as it entered the tube. The experiments on the submerged tubes, with entrance having square comers and of lengths varying from thirty-one hundredths feet to fourteen feet, have been designated by series, (Numbers 1 to 7), the tubes being shown in detail on Plate V. In series Number 1, the length of the tube was three and threequarters inches, equal to thirty-one hundredths feet, the same as the thickness of the bulkhead wall, the opening being cut through this wall at an angle as near ninety degrees as possible. The roughness from the effect of the saw was taken off with a smoothing plane, but sand paper was

not used. The end of the wood was exposed at the sides of the tube as shown in the details'. In Series Number 2. the length of the tube was made equal to sixtytwo hundredths feet, double the length of Series Number 1, by adding wooden strips on the down-stream side. These wooden strips were surfaced and fitted closely to the down-stream edge of the previous tube so that the effect of the joint was practically eliminated. In Series Numbers 3, 4, 5 and 6. the length of the tube in each wise was made double the length of the preceding series number, becoming respectively one and twenty-five hundredths feet, two and one-half feet, five feet and ten feet. In Series Number 7, the length of the tube was made fourteen feet, about the extreme length possible with the arrangement of bulkhead and weir channels at that time. The outlet end of the submerged tube (with the single exception of the tube fourteen feet long, termed 7c') projected into the water on the down stream side of the bulkhead and was firmly braced to the sides of the ten foot channel, the braces being arranged in such a way as not to interfere with the flow through...

This easy-to-read, concise book is filled with examples, hints, reminders and reviews designed to help engineers and scientists develop effective writing skills. Use the book to learn to write better reports, memos, and journal articles and keep it close at hand when you have questions about organization, clarity and style, writing and revising rough drafts, graphics, workplace writing, computers in writing, and legal issues in writing. The book also contains four helpful appendices on common errors, equations

and abbreviations, preparing manuscripts for publication, and documenting information sources. Effective Writing Strategies for Engineers and Scientists provides easy training for the type of writing required of engineers and scientists, gives specific advise for conveying complicated information, and describes how to synthesize information according to specific writing strategies. It is a "must" for every scientist's and engineer's bookshelf.

Presents a series of techniques for acquiring a foreign language, including news ways of training the tongue for pronunciation, use of visual imagery for connecting sounds and spelling, and spaced-repetition methods for learning new vocabulary.

This book is specifically designed to be strong and expert in proven tips & techniques in English, Technical English Language & Communication Skill for graduate (B.Tech./B.E.) and also postgraduate Students (M.Tech./M.E.) of all disciplines (Mechanical, Civil, Electrical, Computer Science, IT) Engineering Students and Professionals who want to improve their language abilities and Communication Skills more confidently and effectively. It has been written based on the current research of Universities and Engineering Colleges syllabi in India which can be used in the classroom or for self-study. Each section of this book explains every appropriate concept from basic to advance in depth with appropriate examples and realistic manner which helps you not only to improve and enhance your Grammar tool, English Language & Communication Skill but also to overcome the problems of common error,

building vocabulary, Spoken English, job interviews, group discussions, presentation, technical listening, speaking, reading, writing etc. This book will help you to understand effective communication, English Language, in the professional and to get good scores in the exams. This book is a must for All Engineering Students and Professionals. A practical, expert-reviewed guide to growing software engineering teams effectively, written by and for hiring managers, recruiters, interviewers, and candidates. Regarding the metaphysical systems: Building metaphysical systems is the process of moving forward with what theoretical metaphysics puts into place. Theoretical metaphysics brings to the building site the materials with which the metaphysical engineer begins the construction of the model itself.As such, let us examine the building materials which theoretical metaphysics has put before us. Once we have taken this step, let's examine some of the potential models metaphysical engineering could construct.Since a relatively large number of models will be presented, we will examine only four in detail. We will then take the final model and put it into non-technical language, generalizations.... [28 models of reality drawn]Now concepts of singularity are quite complex enough for this examination of metaphysical systems. Concepts of multiplicity are no doubt just as much a possibility as concepts of singularity and thus cannot be ignored.To consider the concept of multiplicity however, would go against the parameters set out by Husserl. Reductionism can only be ignored at the expense of confusion. It is for this reason the concept of multiplicity will be ignored at this point in

time. Page 44:In depth analysis of several models follow:Note: The concept of Multiplicity is not the existence of 'a' Metaphysical concept the physical universe in two 'locations' at the same 'time' but rather the concept of Multiplicity is the concept of the existence of "a' whole' Metaphysical concept existing in two separate 'locations' at the same time. Such a perception takes on the appearance of rationality when it is a verb of action the physical universe examined, for example the physical universe - the verb. We recognize the physical universe - action occurring in more than one place at time. Now granted time has just been interjected into the equation, but one can just as readily extract time and the concept of multiplicity of action remains. The debate concerning the interconnection of time and action is not what is the physical universe addressed here, nor is the rationality of the multiplicity of action itself the physical universe debated. Such examinations are entirely different topics. The voluminous material, On the individual the physical universe, is an exercise in Husserl's reductionism and basic Metaphysics and as such, complexity of argument must be set aside for a later date.Without setting such debate aside, the trilogy moves from the physical universe a single set of three books to the physical universe many multiple sets of three books.The perception of Metaphysical multiplicity of action may take on a sense of rationality but the perception of Metaphysical multiplicity of 'a' the individual takes on an appearance of irrationality. As such, to prevent confusing the issue, we will, in this section of this chapter, examine the Metaphysical multiplicity of action rather than other forms of

Metaphysical multiplicity. This in turn will lead us back to the concept of Metaphysical Singularity. A little patience is needed at this point.

Orbital Mechanics for Engineering Students, Second Edition, provides an introduction to the basic concepts of space mechanics. These include vector kinematics in three dimensions; Newton's laws of motion and gravitation; relative motion; the vector-based solution of the classical two-body problem; derivation of Kepler's equations; orbits in three dimensions; preliminary orbit determination; and orbital maneuvers. The book also covers relative motion and the two-impulse rendezvous problem; interplanetary mission design using patched conics; rigid-body dynamics used to characterize the attitude of a space vehicle; satellite attitude dynamics; and the characteristics and design of multi-stage launch vehicles. Each chapter begins with an outline of key concepts and concludes with problems that are based on the material covered. This text is written for undergraduates who are studying orbital mechanics for the first time and have completed courses in physics, dynamics, and mathematics, including differential equations and applied linear algebra. Graduate students, researchers, and experienced practitioners will also find useful review materials in the book. NEW: Reorganized and improved discusions of coordinate systems, new discussion on perturbations and quarternions NEW: Increased coverage of attitude dynamics, including new Matlab algorithms and examples in chapter 10 New examples and homework problems

This book provides a coherent methodology for Model-Driven Requirements Engineering which stresses the systematic treatment of requirements within the realm of modelling and model transformations. The underlying basic assumption is that detailed requirements models are used as first-class artefacts playing a direct role in constructing software. To this end, the book presents the Requirements Specification Language (RSL) that allows precision and formality, which eventually permits automation of the process of turning requirements into a working system by applying model transformations and code generation to RSL. The book is structured in eight chapters. The first two chapters present the main concepts and give an introduction to requirements modelling in RSL. The next two chapters concentrate on presenting RSL in a formal way, suitable for automated processing. Subsequently, chapters 5 and 6 concentrate on model transformations with the emphasis on those involving RSL and UML. Finally, chapters 7 and 8 provide a summary in the form of a systematic methodology with a comprehensive case study. Presenting technical details of requirements modelling and model transformations for requirements, this book is of interest to researchers, graduate students and advanced practitioners from industry. While researchers will benefit from the latest results and possible research directions in MDRE, students and practitioners can exploit the presented information and practical techniques in several areas, including requirements engineering, architectural design, software language construction and model transformation. Together with a tool suite

available online, the book supplies the reader with what it promises: the means to get from requirements to code "in a snap".

Forensic Wellness takes an all-new approach to the national and global obesity crisis. Science, Technology, Engineering and Math are your tools. To achieve sustainable weight loss, it is necessary to understand yourself in the 21st Century. With STEM you develop your own implementable wellness action plan. With this wellness plan you simply and logically understand yourself, your lifestyle, your eating habits and you can be fit for life.

Energy storage will be a very important part of the near future, and its effectiveness will be crucial for most future technologies. Energy can be stored in several different ways and these differ in terms of the type and the conversion method of the energy. Among those methods; chemical, mechanical, and thermal energy storage are some of the most favorable methods for containing energy. Current energy storage devices are still far from meeting the demands of new technological developments. Therefore, much effort has been put to improving the performance of different types of energy storage technologies in the last few decades.

State-of-the-art in its simple, user-friendly presentation, this comprehensive handbook covers the entire process of preparing, producing, and distributing engineering documents using current computer software and the most recent technologies in information transfer. Available in both hardcover and softcover versions! Sponsored by:

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Twilio.com is an American cloud communications platform. Twilio allows software developers to programmatically make and receive phone calls, send and receive text messages, and perform other communication functions using its web service APIs. Twilio uses Amazon Web Services to host telephony infrastructure and provide connectivity between HTTP and the public switched telephone network (PSTN) through its APIs Twilio has very complicated system to understand and use. Its services mainly provided for qualified software developers. But in this report, I will provide introductory guideline for using the Twilio Programmable Messages and Programmable Voices services for simple use without the need to have deep knowledge in Programming. The report consists from the following sections: 1. Opening a Twilio Account and get a Twilio Trial Number 2. Upgrading the Twilio account 3. Twilio guideline for sending and receiving SMS 4. TwiML™ for Programmable SMS 5. TwiML™ for Programmable Voice 6. Basic steps to build Programmable Voice 7. Using TwiML Bins functions 8. Xampp and Ngrok web server setup for Twilio development 9. Sending messages from the dashboard of the Twilio account 10. Auto Dialer for Twilio Platform 11. Summary of testing Programmable Voice using different options 12. Summary of testing Programmable Messaging through different options 13. Creating free website to save the files on it 14. Making voice call using Twilio in browser

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