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today software engineers need to know not only how to program effectively but also how to develop proper engineering practices to make their codebase sustainable and healthy this book emphasizes this difference between programming and software engineering how can software engineers manage a living codebase that evolves and responds to changing requirements and demands over the length of its life based on their experience at google software engineers titus winters and hyrum wright along with technical writer tom manshreck present a candid and insightful look at how some of the worldâ s leading practitioners construct and maintain software this book covers googleâ s unique engineering culture processes and tools and how these aspects contribute to the effectiveness of an engineering organization youâ ll explore three fundamental principles that software organizations should keep in mind when designing architecting writing and maintaining code how time affects the sustainability of software and how to make your code resilient over time how scale affects the viability of software practices within an engineering organization what trade offs a typical engineer needs to make when evaluating design and development decisions

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teaches students and working scientists and engineers the information literacy skills they need for college and successful careers in science and engineering which require implementing complex concepts in scientific communication

presents an illustrated a z encyclopedia containing approximately 600 entries on computer and technology related topics

the peralta family forged an impressive history with the exploration of the new world and created a set of encoded maps from their experiences the maps were reportedly in the possession of don antonio peralta s family at the time santa anna lost the mexican american war in the region considered the colony of new spain in reading peralta maps volume 1 maps in stone and skin authors robert l and lynda r kesselring tell how they

deciphered the maps secrets revealing the existence of more than one hundred square miles of trails mines and buried bullion this first of two volumes tells how the kesselrings learned to interpret the maps and obtained the physical evidence to support their claims volume 1 discusses how maps created on stone and skins were employed for gold mines camps and the treasure of the church of santa fe reading peralta maps discloses tricks symbols and secret signs sharing each solved maps gps coordinates to help visitors reach the sites

it is recognized that the study of mechanical engineering is built of a number of engineering sciences some of which are of basic nature whereas some other are of applied nature basic thermodynamics and basic fluid dynamics are probably the two most important basic engineering sciences in the build of a mechanical power engineer in applied mechanical power engineering sciences the principles introduced and analysed in these two basic sciences are common divisors in other words we may look at these two branches of basic engineering sciences as two legs on which mechanical power engineering applications appear to stand the science of basic thermodynamics is based mainly on a number of basic principles in the form of laws that lead to a number of equations describing and governing the behavior of several mechanical power systems it is therefore of particular importance to introduce and analyse such equations it is also essential to relate these principles and equations to each other and whenever possible to pertinent phenomena and applications this may be achieved via worked examples that stem from from engineering practice the science of basic fluid dynamics is another basic engineering science of equal importance to basic thermodynamics the principles introduced and analysed by this basic science find applications in almost all applied mechanical power engineering sciences examples of these applied sciences are applied thermodynamics applied fluid dynamics combustion engineering turbo machinery refrigeration and air conditioning power plants gas dynamics propulsion systems etc because of the close inter relation between the science of basic thermodynamics and the science of basic fluid dynamics it has become a common practice to contained both sciences in one textbook under the title basic thermo fluid dynamics the title of the present textbook the present textbook on basic thermo fluid dynamics has been divided into distinct parts a and b in part a we concentrate on basic thermodynamics attempting to present with as much clarity as possible the basic principles therein and giving several worked examples for the sake of clarification in part b we concentrate on basic fluid dynamics applying the same philosophy as in part a in this part also a special section in chapter five containing a rather concise manipulation of the applied science of compressible fluid gas dynamics is presented being an important combined application of the basic principles discussed in thermodynamics and fluid dynamics moreover it was felt by the authors that it is particularly important to include this section on gas dynamics since in spite of being applied in nature it is regarded by many as basic more than applied the last chapter of part a and chapter five of part b cover some important engineering applications of the principles given apriori each of these applications may be looked upon as a brief exposition of an applied engineering science carrying the title of the application under consideration this was felt imperative to the advantage hopefully to be gained by the student the authors are indebted to their colleague dr mohammad s h emeara of the mechanical power engineering department zagazig university for assisting with

part of the illustrations and wish to thank him for rendering this assistance in the early stages of preparation of this textbook

handbook of mechanical engineering is a comprehensive text for the students of b e b tech and the candidates preparing for various competitive examination like ies ifs gate state services and competitive tests conducted by public and private sector organization for selecting apprentice engineers

in recent years there has been an increasing demand for research evaluation within universities and other research based organisations in parallel there has been an increasing recognition that traditional citation based indicators are not able to reflect the societal impacts of research and are slow to appear this has led to the creation of new indicators for different types of research impact as well as timelier indicators mainly derived from the these indicators have been called altmetrics webometrics or just web metrics this book describes and evaluates a range of web indicators for aspects of societal or scholarly impact discusses the theory and practice of using and evaluating web indicators for research assessment and outlines practical strategies for obtaining many web indicators in addition to describing impact indicators for traditional scholarly outputs such as journal articles and monographs it also covers indicators for videos datasets software and other non standard scholarly outputs the book describes strategies to analyse web indicators for individual publications as well as to compare the impacts of groups of publications the practical part of the book includes descriptions of how to use the free software webometric analyst to gather and analyse web data this book is written for information science undergraduate and master s students that are learning about alternative indicators or scientometrics as well as ph d students and other researchers and practitioners using indicators to help assess research impact or to study scholarly communication

do you wish the existing books on site reliability engineering started at the beginning do you wish someone would walk you through how to become an sre how to think like an sre or how to build and grow a successful sre function in your organization becoming sre addresses all of these needs and more with three interconnected sections the essential groundwork for understanding sre and sre culture advice for individuals on becoming an sre and guidance for organizations on creating and developing a thriving sre practice acting as your personal and personable guide author david blank edelman takes you through subjects like sre mindset sre culture and sre advocacy what you need to get started and hired in sre and what the job will be like when you get there what you need to bring sre into an organization and what is required for a good organizational fit so it can thrive there how to work with your business folks and management around sre how sre can grow and mature in an organization over time ready to become an sre or introduce sre into your organization this book is here to help

as health systems all over the world not only recover from covid 19 but learn to adapt to contexts of increasing uncertainty amidst persistent challenges it is clear that systems thinking has never been needed more systems thinking is an approach to problem solving that views problems

as part of a wider dynamic system it recognizes and prioritizes the understanding of linkages relationships interactions and interdependencies among the components of a system that give rise to the system s observed behaviour systems thinking is a philosophical frame and it can also be considered a method with its own tools identifying ways in the short and long term which strengthen health systems is critical and applied systems thinking offers opportunities to do this systems thinking is often considered to be a field a discipline a philosophical approach and a set of tools and methods and can be defined as a way to understand and improve complex issues and situations despite broad consensus that systems thinking is important in health systems strengthening it remains underutilized by researchers public health practitioners and health decision makers further a gap remains in the translation from concept to policy

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