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this fun concise full color book introduces the fundamentals of digital illustration and covers how to develop and optimize these types of scalable vector graphics svg using inkscape 0 91 or later it also covers concepts central to digital painting using the corel painter 2016 professional digital painting and illustration paid software package which also has a free trial version and a discount for purchasers of this book the book builds upon the foundational concepts of vector graphics and the svg format and gets more advanced as chapters progress covering what vector new media formats and svg commands and svg filters are best for use with android studio java 8 javafx ios kindle fire and html5 the book covers key factors regarding the data footprint optimization work process and why data footprint optimization is important and covers programming languages used for digital illustration and publishing platforms which support digital illustration and how to assimilate these into your digital illustration and digital painting content production pipelines and workflow you will learn the terminology of vector imaging and digital illustration what comprises a digital illustration 2d modeling and rendering pipeline concepts and principles behind digital illustration content production how to install and utilize 64 bit inkscape 0 91 for windows mac osx and linux concepts behind spline curves strokes fills patterns and

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this largely revised second edition comprehensively reviews the need and rationale for the integration of medical and dental patient data the reader will find extensive guidance on issues involved with care and data integration and how to achieve an integrated model of healthcare the book discusses how the use of state of the art fully integrated dental medical electronic health records can improve clinical financial as well as societal outcomes in the book you will also find different aspects that play a role in integration including existing clinical software implementations and their paths for integration clinical touch points and how current and future developments will facilitate the integration process in a more efficient way this second edition of integration of medical and dental care and patient data details the available methods and technologies for successfully integrating patient medical and dental data it is therefore an important and timely update for informaticians and a broad range of both dental and medical professionals and other health professionals dental assistants hygienists nurses as well as clinical students entering the professional environment

each year three or four mn dot snowplows suffer bridge box collisions while plowing these collisions can shear off the box and frame damage to the truck the box then falls onto the road surface where it becomes an immediate life threatening hazard to traffic in some cases the integrity of the bridge may also be compromised a typical collision of this type requires expenditures of 30 000 to 40 000 dollars and results in potentially dangerous delays in achieving clean pavement status along the affected snowplowing route feasibility of linking on board gps technology for automatic vehicle location with the current bridge information database at mn dot brinfo will be investigated on a plow route by route basis to create collision maps collision avoidance then will use some primitive form of map matching in addition a prototype warning system that serves as a bridge proximity sensor will be developed to alert the snow plow driver that he she is approaching a bridge with the box at a dangerous height this warning system is integrated in an on board box position sensor so that the driver can be alerted that the box must immediately be lowered while realizing that additional means for box height control may complicate snowplow maintenance any system that relieves the driver of cognitive overload to reduce driver stress and fatigue during plowing operating when running extended rural plow routes needs to be implemented

the 1 guide to behavioral issues in medicine delivering thorough practical discussion of the full scope of the physician patient

relationship this is an extraordinarily thorough useful book it manages to summarize numerous topics many of which are not a part of a traditional medical curriculum in concise relevant chapters doody s review service 5 stars reviewing an earlier edition the goal of behavioral medicine is to help practitioners and students understand the interplay between psychological physical social and cultural issues of patients within its pages readers will find real world coverage of behavioral and interactional issues that occur between provider and patient in everyday clinical practice readers will learn how to deliver bad news how to conduct an effective patient interview how to care for patients at the end of life how to clinically manage common mental and behavioral issues in medical patients the principles of medical professionalism motivating behavior change and much more as the leading text on the subject this trusted classic delivers the most definitive practical overview of the behavioral clinical and social contexts of the physician patient relationship the book is case based to reinforce learning through real world examples focusing on issues that commonly arise in everyday medical practice and training one of the significant elements of behavioral medicine is the recognition that the wellbeing of physicians and other health professionals is critically important to caring for patients

the new edition of this professional resource reveals how to optimize all aspects of the global manufacturing process to build the highest quality goods at the lowest price in the shortest possible time how can one apply technical and business knowledge to develop a strategic plan that delivers increased productivity quality sustainability reliability agility resilience and best practices with rapid time to production and value the answers are found in the fully updated new edition of manufacturing engineering handbook the goal of this second edition is to provide the essential knowledge needed to build products with the highest quality at the lowest cost in the least amount of time by optimizing all aspects of the manufacturing process design development tools processes quality speed output safety and sustainability you will gain access to information on conventional and modern technologies manufacturing processes and operations management that will assist you in achieving these goals the book is written by a team of more than 100 internationally renowned manufacturing engineering experts and pared down from its original 1200 pages the new and vastly improved second edition is specifically designed to concisely and succinctly cover traditional manufacturing processes and advanced technologies as well as newer manufacturing software and systems to integrate them into the modern global manufacturing world brand new chapters on eco design and sustainability nano materials and nano manufacturing facilities planning operations research new sections on plastics composites and moldmaking global manufacturing and supply chain management increased coverage of design for six sigma and adaptive manufacturing affiliated web site with color illustrations graphs charts discussions on future trends additional technical papers and suggestions for further reading

auto fundamentals leads students through the design construction and

operation of all major automotive systems ideal for entry level automotive courses this textbook establishes a foundational knowledge of the overall automotive industry and the different career opportunities available written in a manner easily accessible to students entering the automotive field the information in this textbook begins with the fundamentals of automotive technology and builds upon them to offer a complete operational view of the modern automobile each automotive system is explained in detail starting with its basic function and progressing to the construction and operation of its individual components

this report addresses the benefits of drawing down nitrous oxide n₂o emissions n₂o is now the most significant ozone depleting substance emission and the third most important greenhouse gas released into the atmosphere global anthropogenic n₂o emissions are rapidly increasing and are expected to almost double by 2050 unless mitigation action is accelerated the continued build up of n₂o in the atmosphere will continue to deplete the stratospheric ozone layer and in so doing will to a degree undermine the achievements of the montreal protocol the build up of n₂o will also make it more difficult to achieve climate targets two thirds of current anthropogenic n₂o emissions originate from agriculture and these can be reduced by boosting nitrogen use efficiency especially by making the use of fertilizer manure and feed more efficient improving nitrogen use efficiency can be accomplished through a wide variety of feasible options

organized to follow the textbook on a chapter by chapter basis providing questions to help the student review the material presented in the chapter this supplement is a consumable resource designed with perforated pages so that a given chapter can be removed and turned in for grading or checking

auto fundamentals presents the how and why of vehicle construction and operation in a concise easy to understand manner back cover

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