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this open access book presents how open science is a powerful tool to boost higher education the book introduces the reader into open access open technology open data open research results open licensing open accreditation open certification open policy and of course open educational resources it brings all these key topics from major players in the field experts that present the current state of the art and the forthcoming steps towards a useful and effective implementation this book presents radical transgenic solutions for recurrent and long standing problems in

higher education every chapter presents a clear view and a related solution to make higher education progress and implement tools and strategies to improve the user s performance and learning experience this book is part of a trilogy with companion volumes on radical solutions learning analytics and radical solutions elearning

this book gives a general coverage of learning management systems followed by a comparative analysis of the particular lms products review of technologies supporting different aspect of educational process and the best practices and methodologies for lms supported course delivery provided by publisher

illegal online file sharing costs companies tens of billions of dollars of lost revenues around the world annually and results in lost productivity various psychological issues and significant reduction of incentives to create and innovate legislative technical and enforcement efforts have failed this book presents psychological theories about why people illegally share files online analyzes and characterizes optimal sanctions for illegal online file sharing introduces new models for pricing of network access and digital content to help reduce illegal online file sharing introduces new content control and p2p systems and explains why game theory does not work in pricing of network access

this book argues that media and capitalism no longer exist as separated entities and posits three reasons why one can no longer exist without the other firstly mass media have become indispensable to capitalism due to the media s ability to sell the commodities of mass consumerism media capitalism also creates pro capital attitudes among a target population and establishes an ideological hegemony thirdly media capitalism provides mass deception to hide the pathologies of capitalism which include mass poverty rising inequalities and the acceleration of global warming to illuminate this the book s historical chapter traces the emergence of media capitalism its subsequent chapters show how media capitalism has infiltrated the public sphere society schools universities the world of work and finally democracy the book concludes by outlining how societies can transition from media capitalism to a post media capitalist society

learn how magento 1 works and how to manage it via easy and advanced techniques magento continues to be a top choice for ecommerce solutions in small and large businesses and many systems are still running on magento 1 x this book is specifically designed for these versions aimed at entrepreneurs marketers and other experts interested in ecommerce magento 1 diy shows you how to set up and configure magento 1 for your own project you will also learn how to use extensions templates and enterprise features guided by easy to understand real world examples what you will learn set up configure use templates designs and extensions optimize security and performance integrate with pim erp crm and other enterprise systems who this book is for div anyone who wants to learn the basics of all aspects of magento you do not need any previous experience with magento

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blogging has moved rapidly from being a craze to become a core feature of the internet from individuals sharing their thoughts with the world via online diaries through fans talking about their favorite sports teams or music right up to serious business minds discussing industry futures and that includes you right if you haven t got a blog already you want to start one and want to find out how if you have already got one you want to know how to customize it and make it look cooler than everybody elses in either case this is the ideal book for you in this book a team of renowned web designers take you through the ins and outs of putting together great blogs they waste no

time harking on about the philosophy of blogs or the community behind them instead they get straight to the practical details showing how to set up a basic blog in some of the world s most popular blogging engines movable type expressionengine wordpress and textpattern with your blog set up they then show you how to build great looking usable layouts for your blog the last chapter even shows you how to build your very own php mysql based blog engine with this book in hand you ll have found your way to blog heaven in no time

an up to date and comprehensive treatment of biosurveillance techniques with the worldwide awareness of bioterrorism and drug resistant infectious diseases the need for surveillance systems to accurately detect emerging epidemicsis essential for maintaining global safety responding to these issues disease surveillance brings together fifteen eminent researchers in the fields of medicine epidemiology biostatistics and medical informatics to define the necessary elements of an effective disease surveillance program including research development implementation and operations the surveillance systems and techniques presented in the text are designed to best utilize modern technology manage emerging public health threats and adapt to environmental changes following a historical overview detailing the need for disease surveillance systems the text is divided into the following three parts part one sets forth the informatics knowledge needed to implement a disease surveillance system including a discussion of data sources currently used in syndromic surveillance systems part two provides case studies of modern disease surveillance systems including cases that highlight implementation and operational difficulties as well as the successes experienced by health departments in the united states canada europe and asia part three addresses practical issues concerning the evaluation of disease surveillance systems and the education of future informatics and disease surveillance practitioners it also assesses how future technology will shape the field of disease surveillance this book s multidisciplinary approach is ideal for public health professionals who need to understand all the facets within a disease surveillance program and implement the technology needed to support surveillance activities an outline of the components needed for a successful disease surveillance system combined with extensive use of case studies makes this book well suited as a textbook for public health informatics courses

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this book is a reference which addresses the many settings that geriatric care managers find themselves in such as hospitals long term care facilities and assisted living and rehabilitation facilities it also includes case studies and sample forms

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over the past two decades the method of fundamental solutions mfs has attracted great attention and has been used extensively for the solution of scientific and engineering problems the mfs is a boundary meshless collocation method which has evolved from the boundary element method in it the approximate solution is expressed as a linear combination of fundamental solutions of the operator in the governing partial differential equation one of the main attractions of the mfs is the simplicity with which it can be applied to the solution of boundary value problems in complex geometries in two and three dimensions the method is also known by many different names in the literature such as the charge simulation method the de singularization method the virtual boundary element method etc despite its effectiveness the original version of the mfs is confined to solving boundary value problems governed by homogeneous partial differential equations to address this limitation we introduce various types of particular solutions to extend the method to solving general inhomogeneous boundary value problems employing the method of particular solutions this book consists of two parts part i aims to provide theoretical support for beginners in the spirit of reproducible research and to facilitate the understanding of the method and its implementation several matlab codes have been included in part ii this book is highly recommended for use by post graduate researchers and graduate students in scientific computing and engineering

the first book to integrate axiomatic design and robust design fora comprehensive quality approach as the adoption of quality methods grows across various industries its implementation is challenged by situations where

statisticaltools are inadequate yet the earlier a proactive quality system isintroduced into a given process the greater the payback thesemethods will yield axiomatic quality brings together two well established theories axiomatic design and robust design to eliminate or reduce bothconceptual and operational weaknesses providing a completeframework for immediate implementation this book guides designteams in producing systems that operate at high quality levels foreach of their design requirements and it shows the way towardsachieving the six sigma target six times the standard deviationcontained between the target and each side of the specificationlimits for each requirement this book develops an aggressive axiomatic quality approachthat provides the tools to reduce conceptual weaknesses of systemsusing a framework called the conceptual design for capability reduces operational weaknesses of systems in terms of qualitylosses and control costs uses mathematical relationships to bridge the gap betweenscience based engineering and quality methods acclaro dfss light a java based software package that implementsaxiomatic design processes is available for download from a wileyftp site acclaro dfss light is a software product of axiomaticdesign solutions inc laying out a comprehensive approach while working through eachaspect of its implementation axiomatic quality is an essentialresource for managers engineers and other professionals who wantto successfully deploy the most advanced methodology to tacklesystem weaknesses and improve quality

this handbook is a collection of elasticity solutions many of the results presented here cannot be found in textbooks and are available in scientific articles only some of them were obtained in the closed form quite recently the solutions have been thoroughly checked and reduced to a user friendly form every effort has been made to keep the book free of misprints the theory of elasticity is a mature field and a large number of solutions are available we had to make choices in selecting material for this book the emphasis is made on results relevant to general solid mechanics and materials science applications solutions related to structural mechanics beams plates shells etc are left out the content is limited to the linear elasticity

key benefit this comprehensive best seller is aimed at readers with little or no programming experience it teaches by presenting the concepts in the context of full working programs and takes an early objects approach the authors emphasize achieving program clarity through structured and object oriented programming software reuse and

component oriented software construction key topics introduction to computers the internet and world wide introduction to c programming introduction to classes and objects control statements part 1 control statements part 2 functions and an introduction to recursion arrays and vectors pointers and pointer based strings classes a deeper look part 1 classes a deeper look part 2 object oriented programming inheritance object oriented programming polymorphism optional atm case study part 1 object oriented design with the uml optional atm case study part 2 implementing an object oriented design exception handling templates operator overloading string and array objects string processing with class string stream input output file and string stream processing searching and sorting data structures standard template library stl bits characters c strings and structs game programming with ogre boost libraries technical report 1 and c 0x other topics operator precedence and associativity chart ascii character set fundamental types number systems c legacy code topics preprocessor uml 2 additional diagram types using the visual studioreg 2008 debugger using the gnutrade c debugger market a useful reference for programmers

after a brief introduction and contextualization on the internet of things iot and of things wot paradigms this timely new book describes one of the first research initiatives aimed at tackling the several challenges involved in building a middleware layer infrastructure capable of realizing the wot vision the smartsensor infrastructure it is based on current standardization efforts and designed to manage a specific type of physical devices those organized to shape a wireless sensor network wsn where sensors work collaboratively extracting data and transmitting it to external networks to be further analysed and processed middleware solutions for the internet of things describes this infrastructure and its restful based programming model that allows developers create applications without having specific knowledge about physical devices or networking environments it is also shown step by step how to create a mashup application using smartsensor

why study programming ethical gray hat hackers should study programming and learn as much about the subject as possible in order to find vulnerabilities in programs and get them fixed before unethical hackers take advantage of them it is very much a foot race if the vulnerability exists who will find it first the purpose of this chapter is to give you the survival skills necessary to understand upcoming chapters and later find the holes in software before

the black hats do in this chapter we cover the following topics c programming language computer memory intel processors assembly language basics debugging with gdb python survival skills

this concise self contained textbook gives an in depth look at problem solving from a mathematician s point of view each chapter builds off the previous one while introducing a variety of methods that could be used when approaching any given problem creative thinking is the key to solving mathematical problems and this book outlines the tools necessary to improve the reader s technique the text is divided into twelve chapters each providing corresponding hints explanations and finalization of solutions for the problems in the given chapter for the reader s convenience each exercise is marked with the required background level this book implements a variety of strategies that can be used to solve mathematical problems in fields such as analysis calculus linear and multilinear algebra and combinatorics it includes applications to mathematical physics geometry and other branches of mathematics also provided within the text are real life problems in engineering and technology thinking in problems is intended for advanced undergraduate and graduate students in the classroom or as a self study guide prerequisites include linear algebra and analysis

unbeatable advice and expert tips for evaluating designing and deploying virtualization solutions if you re an it professional you know that virtualization is essential in today s computer infrastructures this valuable reference is your key to all things microsoft virtualization written by a microsoft most valuable professional mvp it breaks down all the various technologies what they mean to your organization in terms of saving money and solving problems and how to design and deploy various solutions effectively you ll find invaluable tips and information on such topics as hyper v the changes that windows 8 brings private cloud scenarios and more written by well known 11 time microsoft mvp windows expert and microsoft insider john savill provides practical advice and expert insights on understanding evaluating designing and deploying virtualization solutions keeps you up to date with how windows 8 and windows server 8 affect your virtualization processes covers virtualization in all its forms machine application and user explores the private cloud and public cloud and what they mean to your organization focuses on microsoft solutions such as hyper v but also delves into citrix quest software appsense and other microsoft

partner solutions discusses bringing your own device requirements through vdi and session virtualization and which one is right features video demonstrations and walkthroughs of some processes microsoft virtualization secrets is like having a built in microsoft expert on hand to help you avoid mistakes and save time

this book is the best source for the most current relevant cutting edge research in the field of industrial informatics focusing on different methodologies of information technologies to enhance industrial fabrication intelligence and manufacturing processes provided by publisher

we can all be linux experts provided we invest the time in learning the craft of linux administration pro linux system administration makes it easy for small to medium sized businesses to enter the world of zero cost software running on linux and covers all the distros you might want to use including red hat ubuntu debian and centos authors and systems infrastructure experts james turnbull peter lieverdink and dennis matotek take a layered component based approach to open source business systems while training system administrators as the builders of business infrastructure if you want to implement a soho or smb linux infrastructure pro linux system administration clearly demonstrates everything you need you ll find this book also provides a solid framework to move forward and expand your business and associated it capabilities and you ll benefit from the expertise and experienced guidance of the authors pro linux system administration covers an introduction to using linux and free and open source software to cheaply and efficiently manage your business a layered model that allows your infrastructure to grow with your business easy and simple to understand instructions including configurations examples and extensive real world hints and tips

open source intelligence osint and web reconnaissance are rich topics for infosec professionals looking for the best ways to sift through the abundance of information widely available online in many cases the first stage of any security assessment that is reconnaissance is not given enough attention by security professionals hackers and penetration testers often the information openly present is as critical as the confidential data hacking intelligence shows you how to dig into the and uncover the information many don t even know exists the book takes a holistic

approach that is not only about using tools to find information online but also how to link all the information and transform it into presentable and actionable intelligence you will also learn how to secure your information online to prevent it being discovered by these reconnaissance methods hacking intelligence is an in depth technical reference covering the methods and techniques you need to unearth open source information from the internet and utilize it for the purpose of targeted attack during a security assessment this book will introduce you to many new and leading edge reconnaissance information gathering and open source intelligence methods and techniques including metadata extraction tools advanced search engines advanced browsers power searching methods online anonymity tools such as tor and i2p osint tools such as maltego shodan creepy searchdiggity recon ng social network analysis sna darkweb deepweb data visualization and much more provides a holistic approach to osint and recon showing you how to fit all the data together into actionable intelligence focuses on hands on tools such as tor i2p maltego shodan creepy searchdiggity recon ng foca exif metagoofil mat and many more covers key technical topics such as metadata searching advanced browsers and power searching online anonymity darkweb deepweb social network analysis sna and how to manage analyze and visualize the data you gather includes hands on technical examples and case studies as well as a python chapter that shows you how to create your own information gathering tools and modify existing apis

build your own eye popping site design create a user friendly site design great graphics and make updating easy whether you re designing a site on your own or are a member of a design team this updated guide will be your best assistant

create a long term no fuss wealth building plan that will get you out of an office cubicle for good entrepreneur media has teamed up with nightingale conant the world leader in self development to show you how to escape the 9 to 5 rat race harness the power of passive income and earn a steady stream of cash while living your best life whether you want to escape your corporate life and start a side hustle spend more time with your family while your real es tate investment rakes in the cash or build a financial nest egg for the future with a passive investment stream the power of passive income will get you started on your journey you will learn how to assess your

personal skills resources and lifestyle identify passive income and time for money models get out of your debt hole and into your nest egg manage your income and expectations for success generate a six figure income with the right strategy for your goals redefine wealth based on what matters to you free yourself from the need to work for someone else and make yourself rich instead maximize your income minimize your stress level and get the absolute most from every moment with the power of passive income

linux servers now account for 33 of all networks servers running worldwide source idc the top 3 market share holders in the network server space ibm hewlett packard and dell all use linux as their standard operating system this book teaches linux system administrators how to protect their servers from malicious threats as with any technologies increased usage results in increased attention from malicious hackers for years a myth existed that windows was inherently less secure than linux because there were significantly more attacks against windows machines than linux this was a fallacy there were more attacks against windows machines because there were simply so many more windows machines to attack now the numbers tell the exact opposite story linux servers account for 1 3 of all servers worldwide but in 2005 there were 3 times as many high severity security vulnerabilities discovered on linux servers source idc this book covers open source security implementing an intrusion detection system unearthing rootkits defending against malware creating virtual private networks and much more the perfect reference for the multitasked sysadmin discover why measure twice cut once applies to securing linux complete coverage of hardening the operating system implementing an intrusion detection system and defending databases short on theory history and technical data that is not helpful in performing your job

this title is designed to teach the new computer user how to easily work with a variety of digital media it doesn t assume the reader wants to learn how to use just one product but covers multiple products and technologies together in a logical fashion

a self contained and systematic development of an aspect of analysis which deals with the theory of fundamental solutions for differential operators and their applications to boundary value problems of mathematical physics

applied mathematics and engineering with the related computational aspects

second edition updated for unity 2017 published in february 2018 why this book can help you to get started with game development creating your own game can be very intimidating at the start and quite often regardless of your experience with games it is sometimes difficult to find the time and motivation to get over the first barriers and to get started often these barriers seem higher than they actually are maybe you are a teacher trying to introduce games in your classroom or a parent trying to help your child with coding but with no previous coding or game development experience maybe you are a hobbyist who would love to create interactive environments based on your favorite games maybe you are a student getting started with game development but you just don t know where to start or what resources to use or maybe you have tried online video tutorials but found them disjointed you may be wondering how can i start to create my games if i have no experience of coding or this game engine is so complex that i just don t know where to get started this is quite common and you can easily overcome these issues with a step by step approach that gets you to progressively develop and use your skills this is the approach that i have used successfully over the past years to take students from no knowledge of coding or game development to good levels of proficiency in unity and coding of course it takes some time and dedication however by following the techniques and suggestions described in this book i can promise you that you will progress regardless of your background and become more comfortable with unity and coding content and structure of this book in this book the second book in the series you will become comfortable with scripting in unity by creating a simple survival game the book includes a list of the learning objectives at the start of each chapter step by step activities opportunities to engage in deeper learning and problem solving skills through challenges at the end of each chapter quizzes to test your knowledge full project and code solutions in javascript and c for each chapter cheat sheets i e shortcuts best practice etc that you can download the content of each chapter is as follows chapter 1 gives an introduction to javascript and to core principles that will help you to get started with coding you will learn key programming concepts such as variables variable types or functions chapter 2 helps you to code your first script you will learn how to code following best coding practices debug your code and also avoid common errors chapter 3 gets you to improve your scripting skills enhance your game and add more interaction you will learn to

implement a scoring system to detect collisions and to load new levels chapter **4** explains how you can create and update a user interface for your game e g displaying images and messages onscreen using scripting chapter **5** explains how you can polish up your game you will add a splash screen a simple inventory system sound effects as well as a mini map chapter **6** explains how to add non player characters npcs with artificial intelligence ai you will configure each npc and get them to either follow the player or walk along a simple path of your choice and also detect collision with them chapter **7** provides answers to frequently asked questions faqs e g scripting audio ai or user interface if you want to start scripting with unity using a tried and tested method download this book now

advanced electromagnetic computation with matlab discusses commercial electromagnetic software widely used in the industry algorithms of finite differences moment method finite element method and finite difference time domain method are illustrated hand computed simple examples and matlab coded examples are used to explain the concepts behind the algorithms case studies of practical examples from transmission lines waveguides and electrostatic problems are given so students are able to develop the code and solve the problems two new chapters including advanced methods based on perturbation techniques and three dimensional finite element examples from radiation scattering are included

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From Air Pressure to Force: Understanding the Conversion from kPa to kN/m²

Imagine a colossal weight pressing down on a surface – the immense pressure of the ocean depths, the force of a hurricane's wind, or even the seemingly insignificant weight of the air around us. These forces, often expressed in kilopascals (kPa), are fundamentally related to pressure acting over an area, which we can quantify in kilonewtons per square meter (kN/m²). This article delves into the fascinating relationship between kPa and kN/m², explaining the conversion and illustrating its practical significance in various real-world scenarios.

1. Understanding Pressure and Force: The Fundamental Concepts

Before diving into the conversion, let's clarify the core concepts involved. Pressure (P) is the force (F) applied perpendicularly to a surface divided by the area (A) over which the force is distributed. Mathematically, this is represented as: P = F/A Pressure is commonly measured in Pascals (Pa), where 1 Pa is equal to 1 Newton per square meter (N/m²). Kilopascals (kPa) are simply a more convenient unit, representing 1000 Pascals (1 kPa = 1000 Pa). Force, measured in Newtons (N), is a vector quantity describing the interaction that alters or tends to alter the motion of an object. It's a push or a pull. Kilonewtons (kN) represent 1000 Newtons (1 kN = 1000 N).

2. The Conversion: kPa to kN/m²

The beauty of the relationship between kPa and kN/m² lies in its direct proportionality. Since 1 kPa = 1000 N/m² and 1 kN = 1000 N, the conversion is remarkably simple. We can directly substitute these equivalencies into our pressure equation: If P = F/A and P is given in kPa, then: 1 kPa = 1000 N/m² = 1 kN/m² Therefore, 1 kPa is exactly equal to 1 kN/m². This means that any pressure value expressed in kPa can be directly converted to kN/m² without any mathematical manipulation beyond a unit change.

3. Real-World Applications: Where the Conversion Matters

The conversion from kPa to kN/m² finds widespread applications across various engineering and scientific disciplines: Civil Engineering: Structural engineers use this conversion to determine the load-bearing capacity of structures like bridges and buildings. The pressure exerted by the weight of the structure and its contents (expressed in kPa) needs to be converted to kN/m² to assess the stress on the supporting materials. Mechanical Engineering: In designing pressure vessels, like boilers or tanks, engineers need to ensure the material can withstand the internal pressure (expressed in kPa). This involves converting the pressure to kN/m² to calculate the force acting on the vessel's walls. Aerospace Engineering: Aircraft design necessitates understanding the pressure differentials acting on the aircraft's surface during flight. Converting pressure values from kPa to kN/m² allows engineers to accurately calculate the forces involved and ensure structural integrity. Meteorology: Atmospheric pressure is often measured in kPa. Converting this to kN/m² can help understand the force exerted by the atmosphere on various surfaces, relevant for predicting weather patterns and their impact. Hydraulics and Pneumatics: Systems utilizing fluid pressure often use kPa as a pressure unit. Conversion to kN/m² helps determine the force exerted by the fluid on actuators, pistons, and other components.

4. Beyond Simple Conversion: Considering Area

While the conversion itself is straightforward, it's crucial to remember that the force exerted depends heavily on the area over which the pressure acts. A small area subjected to high pressure can result in a significant force, whereas a large area subjected to the same pressure results in a smaller force. For example, imagine a pressure of 100 kPa acting on two different areas: a 1 m² surface and a 0.1 m² surface. The force on the 1 m² surface is 100 kN (100 kPa 1 m² = 100 kN), while the force on the 0.1 m² surface is only 10 kN (100 kPa 0.1 m² = 10 kN).

5. Summary and Conclusion

The conversion between kPa and kN/m² is a fundamental concept in various fields of engineering and science. While the numerical conversion is simple (1 kPa = 1 kN/m²), understanding the underlying relationship between pressure, force, and area is crucial for practical applications. Knowing how to perform this conversion is essential for accurately calculating forces in diverse scenarios, ensuring structural integrity, and optimizing the design of various systems.

FAQs

1. Can I use this conversion for any pressure unit? No, this specific conversion applies only between kPa and kN/m². Conversions involving other pressure units like bar, psi, or mmHg require different conversion factors. 2. What if I have a pressure given in Pascals (Pa)? Simply divide the pressure in Pascals by 1000 to get the pressure in kPa, then you can directly use the 1:1 conversion to kN/m². 3. Does the conversion change if the pressure is not perpendicular to the surface? Yes, the conversion remains the same, but the entire force calculation becomes more complex, requiring vector analysis to account for the angle of incidence. 4. Are there any situations where the kPa

to kN/m² conversion might be inaccurate? In highly specialized situations involving extremely high pressures or unusual material behaviors, minor inaccuracies might arise due to non-linear material properties or relativistic effects, but these are typically negligible in most common engineering applications. 5. What are some resources for further learning about pressure and force calculations? Numerous textbooks and online resources cover these topics in detail. Search for "statics," "strength of materials," or "fluid mechanics" to find suitable learning materials.

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