

guesstimation
2.0

Lawrence
Weinstein

Solving today's problems on the back of a napkin

$t = \frac{5 \text{ cm}}{500 \text{ birds} \times \frac{1 \text{ m}}{10^6 \text{ s}}}$
 $h = 10^{12} \text{ L}$

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Sándor Vajna



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Guesstimation 2.0 Lawrence Weinstein, 2012-09-30 Simple and effective techniques for quickly estimating virtually anything Guesstimation 2 0 reveals the simple and effective techniques needed to estimate virtually anything quickly and illustrates them using an eclectic array of problems A stimulating follow up to Guesstimation this is the must have book for anyone preparing for a job interview in technology or finance where more and more leading businesses test applicants using estimation questions just like these The ability to guesstimate on your feet is an essential skill to have in today s world whether you re trying to distinguish between a billion dollar subsidy and a trillion dollar stimulus a megawatt wind turbine and a gigawatt nuclear plant or parts per million and parts per billion contaminants Lawrence Weinstein begins with a concise tutorial on how to solve these kinds of order of magnitude problems and then invites readers to have a go themselves The book features dozens of problems along with helpful hints and easy to understand solutions It also includes appendixes containing useful formulas and more Guesstimation 2 0 shows how to estimate everything from how closely you can orbit a neutron star without being pulled apart by gravity to the fuel used to transport your food from the farm to the store to the total length of all toilet paper used in the United States It also enables readers to answer once and for all the most asked environmental question of our day paper or plastic

Guesstimation 2.0, 2012 *Dimensional Analysis Across the Landscape of Physics* Richard W. Robinett, 2025-01-20 Aimed at students throughout the undergraduate Physics curriculum this textbook emphasizes the utility of dimensional analysis techniques in research applications with examples ranging from famous papers in the historical literature to recent advances and includes an extensive array of worked examples and end of chapter problems

Blended Learning in Practice Amanda G. Madden, Lauren Margulieux, Robert S. Kadel, Ashok K. Goel, 2019-04-09 A guide to both theory and practice of blended learning offering rigorous research case studies and methods for the assessment of educational effectiveness Blended learning combines traditional in person learning with technology enabled education Its pedagogical aim is to merge the scale asynchrony and flexibility of online learning with the benefits of the traditional classroom content rich instruction and the development of learning relationships This book offers a guide to both theory and practice of blended learning offering rigorous research case studies and methods for the assessment of educational effectiveness The contributors to this volume adopt a range of approaches to blended learning and different models of implementation and offer guidelines for both researchers and instructors considering such issues as research design and data collection In these courses instructors addressed problems they had noted in traditional classrooms attempting to enhance student engagement include more active learning strategies approximate real world problem solving and reach non majors The volume offers a cross section of approaches from one institution Georgia Tech to provide both depth and breadth It examines the methodologies of implementation in a variety of courses ranging from a first year composition class that incorporated the video game Assassin s Creed II to a research methods class for psychology and

computer science students Blended Learning will be an essential resource for educators researchers administrators and policy makers Contributors Joe Bankoff Paula Braun Mark Braunstein Marion L Brittain Timothy G Buchman Rebecca E Burnett Aldo A Ferri Bonnie Ferri Andy Frazee Mohammed M Ghassemi Ashok K Goel Alyson B Goodman Joyelle Harris Cheryl Hiddleson David Joyner Robert S Kadel Kenneth J Knoespel Joe Le Doux Amanda G Madden Lauren Margulieux Olga Menagarishvili Shamim Nemati Vjollca Sadiraj Donald Webster

Handbook of Quantitative Thinking. Second Edition Sixtus Kage, 2025-09-03 This Handbook of Quantitative Thinking provides an interconnected and unusually thorough look at the world around us From small things such as soap bubbles to big things such as ships and buildings quantitative questions are posed and answered in comprehensive case studies When necessary rough estimates are provided How much soap is in a soap bubble What is the volume and the weight of the water film enclosing a soap bubble What is the thickness of a line drawn with a pencil How many carbon dioxide molecules does a burning candle produce per photon of visible light emitted How many sugar cubes can keep you alive for 90 days How many Mars trademark bars do you need to fly to planet Mars and back if the Mars bars are your only food How much oxygen does a field tree produce per year How many shiploads of liquefied natural gas LNG would Germany need per year if the central heating units in all buildings ran on gas imported from overseas By how much is a church tower shorter owing to the compression of the bricks and the mortar under the weight of the structure How much energy is needed globally for making bread and cooking rice How does that figure relate to Germany's total energy demand Since they are deeply interested in the physical world around them children physicists and engineers will surely like the questions raised in this book and the answers given Future consultants may have to answer questions like the following ones in job interviews What is a needle in a haystack in ppm or ppb How many trees per year do you need to supply a country with toothpicks The book also contains an index of quantitative data occurring in the case studies and in other sources sorted by type and magnitude The bibliography alerts the readers to a multitude of books covering related subject matter

Renewable Energy Robert Ehrlich, Harold A. Geller, John R. Cressman, 2022-07-07 This revised edition of Renewable Energy A First Course is fully updated and continues to provide the best in depth introduction to renewable energy science The book focuses mainly on renewable energy but also addresses nonrenewable energy fossil fuels and nuclear technology The coverage extends from the basic physics to conservation economic and public policy issues with strong emphasis on explaining how things work in practice The authors avoid technical jargon and advanced math but address fundamental analytical skills with wide application Updated statistics figures policies trends and technological advancements will bring the reader up to speed with the current state of renewable energy

The Art of Insight in Science and Engineering Sanjoy Mahajan, 2014-11-07 Tools to make hard problems easier to solve In this book Sanjoy Mahajan shows us that the way to master complexity is through insight rather than precision Precision can overwhelm us with information whereas insight connects seemingly disparate pieces of information into a simple picture Unlike computers humans depend

on insight Based on the author s fifteen years of teaching at MIT Cambridge University and Olin College The Art of Insight in Science and Engineering shows us how to build insight and find understanding giving readers tools to help them solve any problem in science and engineering To master complexity we can organize it or discard it The Art of Insight in Science and Engineering first teaches the tools for organizing complexity then distinguishes the two paths for discarding complexity with and without loss of information Questions and problems throughout the text help readers master and apply these groups of tools Armed with this three part toolchest and without complicated mathematics readers can estimate the flight range of birds and planes and the strength of chemical bonds understand the physics of pianos and xylophones and explain why skies are blue and sunsets are red The Art of Insight in Science and Engineering will appear in print and online under a Creative Commons Noncommercial Share Alike license

The Best Writing on Mathematics 2013 Mircea Pitici, 2014-01-19 The year s finest writing on mathematics from around the world with a foreword by Nobel Prize winning physicist Roger Penrose This annual anthology brings together the year s finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2013 makes available to a wide audience many articles not easily found anywhere else and you don t need to be a mathematician to enjoy them These writings offer surprising insights into the nature meaning and practice of mathematics today They delve into the history philosophy teaching and everyday occurrences of math and take readers behind the scenes of today s hottest mathematical debates Here Philip Davis offers a panoramic view of mathematics in contemporary society Terence Tao discusses aspects of universal mathematical laws in complex systems Ian Stewart explains how in mathematics everything arises out of nothing Erin Maloney and Sian Beilock consider the mathematical anxiety experienced by many students and suggest effective remedies Elie Ayache argues that exchange prices reached in open market transactions transcend the common notion of probability and much much more In addition to presenting the year s most memorable writings on mathematics this must have anthology includes a foreword by esteemed mathematical physicist Roger Penrose and an introduction by the editor Mircea Pitici This book belongs on the shelf of anyone interested in where math has taken us and where it is headed

A Gentle Introduction to Effective Computing in Quantitative Research Harry J. Paarsch, Konstantin Golyaev, 2016-05-13 A practical guide to using modern software effectively in quantitative research in the social and natural sciences This book offers a practical guide to the computational methods at the heart of most modern quantitative research It will be essential reading for research assistants needing hands on experience students entering PhD programs in business economics and other social or natural sciences and those seeking quantitative jobs in industry No background in computer science is assumed a learner need only have a computer with access to the Internet Using the example as its principal pedagogical device the book offers tried and true prototypes that illustrate many important computational tasks required in quantitative research The best way to use the book is to read it at the computer keyboard and learn by doing The book begins by

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Задачи Ферми, книги Перельмана, Алкуин из Йорка и другие способы обсчитать этот мир Евгений Колесников, 2023-11-14 53 Botan us XX XXI de visu □□□□□□

□□ □□□, 2018-06-15 Solar Man Can Asian Advertising Ltd Louis Martin M Monti UCLA **Wie viele Blätter hat ein Baum? How many leaves does a tree have?** Sixtus Kage, 2025-01-07 In diesem B chlein wird mit drei verschiedenen Methoden die

Zahl der Bl tter von B umen auf einem Stadtgrundst ck abgesch tzt Dabei wird auch die Unsicherheit der Sch tzwerte angegeben Zus tzlich werden die Ergebnisse genutzt um eine neue Forschungsarbeit ber die Auswirkung des Klimawandels auf das Baumwachstum verstehen zu k nnen Das B chlein zeigt den Stil der praxisnahen bungsaufgaben die der Autor beim Nachhilfeunterricht in Mathematik Physik Ingenieurwissenschaften und verwandten F cher gestellt hat In this booklet three different methods are used to estimate the number of leaves of trees on a city property The uncertainty of the estimates is also stated Additionally the results are used to understand a new research article on the effect of climate change on the growth of trees This booklet shows the style of the real life problems the author has used in tutoring session in mathematics physics engineering and related subjects Millions, Billions, Zillions Brian W. Kernighan, 2020-11-10 Numbers are often

intimidating confusing and even deliberately deceptive especially when they are really big The media loves to report on millions billions and trillions but frequently makes basic mistakes or presents such numbers in misleading ways And misunderstanding numbers can have serious consequences since they can deceive us in many of our most important decisions including how to vote what to buy and whether to make a financial investment In this short accessible enlightening and entertaining book leading computer scientist Brian Kernighan teaches anyone even diehard math phobes how to demystify the numbers that assault us every day With examples drawn from a rich variety of sources including journalism advertising and politics Kernighan demonstrates how numbers can mislead and misrepresent In chapters covering big numbers units dimensions and more he lays bare everything from deceptive graphs to speciously precise numbers And he shows how anyone using a few basic ideas and lots of shortcuts can easily learn to recognize common mistakes determine whether numbers are credible and make their own sensible estimates when needed Giving you the simple tools you need to avoid being fooled by dubious numbers Millions Billions Zillions is an essential survival guide for a world drowning in big and often bad data Jacket How to talk about Mathematics. Wie man über Mathematik spricht. Sixtus Kage, 2025-05-14 In this booklet you find the language of describing and explaining mathematical concepts symbols and procedures in English and

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Mathematics for Sustainability John Roe, Russ deForest, Sara Jamshidi, 2018-04-26 Designed for the 21st century classroom this textbook poses refines and analyzes questions of sustainability in a quantitative environment Building mathematical knowledge in the context of issues relevant to every global citizen today this text takes an approach that empowers students of all disciplines to understand and reason with quantitative information Whatever conclusions may be reached on a given topic this book will prepare the reader to think critically about their own and other people s arguments and to support them with careful mathematical reasoning Topics are grouped in themes of measurement flow connectivity change risk and decision making Mathematical thinking is at the fore throughout as students learn to model sustainability on local regional and global scales Exercises emphasize concepts while projects build and challenge communication skills With no prerequisites beyond high school algebra instructors will find this book a rich resource for engaging all majors in the mathematics classroom From the Foreword No longer will you be just a spectator when people give you quantitative information you will become an active participant who can engage and contribute new insights to any discussion There are many math books that will feed you knowledge but it is rare to see a book like this one that will help you cultivate wisdom As the authors illustrate mathematics that pays attention to human considerations can help you look at the world with a new lens help you frame important questions and help you make wise decisions Francis Edward Su Harvey Mudd College

Integrated Design Engineering Sándor Vajna, 2014-05-29 Das vorliegende Buch beschreibt das Integrated Design Engineering IDE Dies ist die Weiterentwicklung der Integrierten Produktentwicklung IPE zu einem interdisziplin ren Modell f r eine ganzheitliche Produktentwicklung Das IDE steht f r den systematischen Einsatz von integrierten interdisziplin ren ganzheitlichen und rechnerunterst tzten Strategien Methoden und Werkzeugen bei der Entwicklung von Produkten und Dienstleistungen Ber cksichtigt wird dabei der gesamte Lebenszyklus des Produkts Das Werk erl utert die Grundlagen und den praktischen Einsatz des IDE das sich in zahlreichen Industrieprojekten der beteiligten Autoren bereits als praxistauglich erwiesen hat Es ist modular aufgebaut so dass jedes Kapitel unabh ngig gelesen werden kann Das Buch eignet sich f r Studierende der Ingenieurwissenschaften des Industriedesigns der Wirtschaftswissenschaften der Informatik und den sich hieraus ergebenden Br ckenstudieng ngen wie Sporttechniker oder Wirtschaftsingenieure Produktentwickler und F hrungskr fte aus der Praxis

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Guesstimation Lawrence Weinstein, John Adam, 2009-02-09 *Guesstimation* is a book that unlocks the power of approximation it's popular mathematics rounded to the nearest power of ten The ability to estimate is an important skill in daily life More and more leading businesses today use estimation questions in interviews to test applicants abilities to think on their feet *Guesstimation* enables anyone with basic math and science skills to estimate virtually anything quickly using plausible assumptions and elementary arithmetic Lawrence Weinstein and John Adam present an eclectic array of estimation problems that range from devilishly simple to quite sophisticated and from serious real world concerns to downright silly ones How long would it take a running faucet to fill the inverted dome of the Capitol What is the total length of all the pickles consumed in the US in one year What are the relative merits of internal combustion and electric cars of coal and nuclear energy The problems are marvelously diverse yet the skills to solve them are the same The authors show how easy it is to derive useful ballpark estimates by breaking complex problems into simpler more manageable ones and how there can be many paths to the right answer The book is written in a question and answer format with lots of hints along the way It includes a handy appendix summarizing the few formulas and basic science concepts needed and its small size and French fold design make it conveniently portable Illustrated with humorous pen and ink sketches *Guesstimation* will delight popular math enthusiasts and is ideal for the classroom

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