

Symbol Recognition

Expression

$\int f \, dx \quad \int_a^b f \, dx$   
 $\sum_{i=1}^n f \quad \prod_{i=1}^n f \quad \frac{d}{dx} f$   
 $\frac{\partial}{\partial x} f \quad \lim_{x \rightarrow a} f \quad a^b$   
 $a_n \quad \sqrt{x} \quad \sqrt[n]{x}$   
 $a! \quad |a| \quad e^x$   
 $\ln(a) \quad \log_{10}(a)$   
 $\log_a(a) \quad \sin(a)$   
 $\cos(a) \quad \tan(a)$   
 $\begin{pmatrix} a \\ b \end{pmatrix} \quad f(x)$   
 $f(a, b) \quad f = a \rightarrow y$   
 $f = (a, b) \rightarrow z$   
 $f(x) \Big|_{x=a}$   
 $\begin{cases} -x & x < a \\ x & x \geq a \end{cases}$

Units (3)

Common Symbols

Each of these two integrals has even integrands, so we have

$$\frac{1}{2} \int_{-\infty}^{\infty} \frac{1}{(4+x^2)^2} dx + \frac{1}{2} \int_{-\infty}^{\infty} \frac{\cos(2x)}{(4+x^2)^2} dx$$

In each of these two integrals, close the contour in the upper half-plane, thereby forming  $C_R$  and evaluate

$$\frac{1}{2} \int_{C_R} \frac{1}{(4+x^2)^2} dx + \frac{1}{2} \int_{C_R} \frac{\cos(2x)}{(4+x^2)^2} dx$$

For the first integral we have, by the Cauchy residue theorem,

$$\frac{1}{2} (2\pi i) \operatorname{Res}\left(\frac{1}{(4+x^2)^2}, z=2i\right) = \pi i \left(-\frac{i}{32}\right) = \frac{\pi}{32}$$

where  $z=2i$  is the only pole the integrand has in the upper half-plane. For the second integral, we have

$$\frac{1}{2} \Re\left(2\pi i \operatorname{Res}\left(\frac{e^{2iz}}{(4+x^2)^2}, z=2i\right)\right) = \frac{1}{2} \Re\left(\left(-\frac{5i}{32}\right) e^{-4} 2\pi i\right) = \frac{5\pi}{32} e^{-4}$$

and for the original integral, we have  $\frac{\pi}{32} + \frac{5\pi}{32} e^{-4} = \frac{\pi}{32} (1 + 5e^{-4})$ .

# Software Engineering Mathematics

**Tobias Bleicker**



## **Software Engineering Mathematics:**

Software Engineering Mathematics Janet Woodcock, 2014 This book makes the mathematical basis of formal methods accessible both to the student and to the professional It is motivated in the later chapters by examples and exercises Throughout the premise is that mathematics is as essential to design and construction in software engineering as it is to other engineering disciplines The exercises range from simple drills intended to provide familiarity with concepts and notation to advanced material The first four chapters of the book are devoted to foundations with an introduction to formal systems then the propositional and predicate calculi concluding with a chapter on theories in general The second part of the book builds upon the foundations by covering in detail the theory of sets relations functions and sequences The mathematical data types then presented are powerful enough to describe many aspects of software systems and small case studies are included as examples of their use in the modelling of software a configuration manager a storage allocator and a simple backing store interface The concrete syntax of the Z notation has been adopted The third part of the book presents two detailed case studies in the use of mathematics in software engineering The first is the specification of the behaviour of a telephone exchange and the second illustrates the importance of the development of a mathematical theory in gaining an understanding of a system Both case studies stress the roles of modelling and of proof in the construction of specifications The final part describes the algebraic approach to specification and then summarizes and compares the various formal techniques

Mathematical Foundations of Software Engineering Gerard O'Regan, 2023-05-04 This textbook presents an introduction to the mathematical foundations of software engineering It presents the rich applications of mathematics in areas such as error correcting codes cryptography the safety and security critical fields the banking and insurance fields as well as traditional engineering applications Topics and features Addresses core mathematics for critical thinking and problem solving Discusses propositional and predicate logic and various proof techniques to demonstrate the correctness of a logical argument Examines number theory and its applications to cryptography Considers the underlying mathematics of error correcting codes Discusses graph theory and its applications to modelling networks Reviews tools to support software engineering mathematics including automated and interactive theorem provers and model checking Discusses financial software engineering including simple and compound interest probability and statistics and operations research Discusses software reliability and dependability and explains formal methods used to derive a program from its specification Discusses calculus matrices vectors complex numbers and quaternions as well as applications to graphics and robotics Includes key learning topics summaries and review questions in each chapter together with a useful glossary This practical and easy to follow textbook reference is ideal for computer science students seeking to learn how mathematics can assist them in building high quality and reliable software on time and on budget The text also serves as an excellent self study primer for software engineers quality professionals and software managers

*Software Engineering Mathematics* Jim

Woodcock, Martin Loomes, 1989      **Mathematical Approaches to Software Quality** Gerard O'Regan, 2006-02-16 This book provides a comprehensive introduction to various mathematical approaches to achieving high quality software An introduction to mathematics that is essential for sound software engineering is provided as well as a discussion of various mathematical methods that are used both in academia and industry The mathematical approaches considered include Z specification language Vienna Development Methods VDM Irish school of VDM VDM approach of Dijkstra and Hoare classical engineering approach of Parnas Cleanroom approach developed at IBM software reliability and unified modelling language UML Additionally technology transfer of the mathematical methods to industry is considered The book explains the main features of these approaches and applies mathematical methods to solve practical problems Written with both student and professional in mind this book assists the reader in applying mathematical methods to solve practical problems that are relevant to software engineers

**A Brief History of Computing** Gerard O'Regan, 2008 Robert Irwin travels back in time with his real life best friend in his third wild adventure Robert and his best friend Riley are visiting the Canadian badlands in Alberta with Riley's Uncle Nate The badlands are home to more than 35 different species of dinosaur fossils Robert and Riley get pulled back in time to Alberta Canada during the Late Cretaceous period to find a heavily armored euoplocephalus trapped in vines The rescue doesn't go according to plan when a ferocious gorgosaurus arrives on the scene looking for a snack

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**Basics of Software Engineering Experimentation** Natalia Juristo, Ana M. Moreno, 2010-12-03 Basics of Software Engineering Experimentation is a practical guide to experimentation in a field which has long been underpinned by suppositions assumptions speculations and beliefs It demonstrates to software engineers how Experimental Design and Analysis can be used to validate their beliefs and ideas The book does not assume its readers have an in depth knowledge of mathematics specifying the conceptual essence of the techniques to use in the design and analysis of experiments and keeping the mathematical calculations clear and simple Basics of Software Engineering Experimentation is practically oriented and is specially written for software engineers all the examples being based on real

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The book delves into Software Engineering Mathematics. Software Engineering Mathematics is a vital topic that needs to be grasped by everyone, from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Software Engineering Mathematics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:
    - Chapter 1: Introduction to Software Engineering Mathematics
    - Chapter 2: Essential Elements of Software Engineering Mathematics
    - Chapter 3: Software Engineering Mathematics in Everyday Life
    - Chapter 4: Software Engineering Mathematics in Specific Contexts
    - Chapter 5: Conclusion
  2. In chapter 1, this book will provide an overview of Software Engineering Mathematics. This chapter will explore what Software Engineering Mathematics is, why Software Engineering Mathematics is vital, and how to effectively learn about Software Engineering Mathematics.
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  6. In chapter 5, this book will draw a conclusion about Software Engineering Mathematics. The final chapter will summarize the key points that have been discussed throughout the book.
- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Software Engineering Mathematics.

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web jul 16 2020 dok level 1 recall what is the knowledge who what when where dok level 2 skill concept how can the knowledge be used how can you arrive at the answer dok level 3 strategic thinking why does it happen the way it does how why could the knowledge be used dok level 4 extended thinking how else could you use

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web nov 2 2018 multiple choice questions can be written at a dok 3 or 4 level however to design a question in this format is difficult an item at dok level 3 or 4 requires complex reasoning strategic and extended thinking about the concepts of the content and a real world context and especially at a level 4 that requires research investigation and

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web sep 4 2014 dok levels are also not developmental all students including the youngest preschoolers are capable of strategic and extended thinking tasks what they look like will differ and what is level 3 to a kindergarten student may be a

level 1 task for a middle schooler all students however should have opportunities to do complex reasoning

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web dok 3 3 lafs 3 rl 1 2 recount stories including fables folktales and myths from diverse cultures determine the central message lesson or moral and explain how it is conveyed through key details in the text dok 2 4 lafs 4 rl 1 2 determine a theme of a story drama or poem from details in the text summarize the text dok 3

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web jan 13 2020 3 describe the 7 different types of quadrilaterals along with diagrams 4 discern the derivative of  $f(x)$  5 fill in the blanks with appropriate numbers x 2 3 dok level 3 connect the highlighted points and calculate the areas of all the triangles rectangles and squares that are possible

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web at dok level 3 the depth of knowledge questions for science should focus on a concept that has more than one possible answer at dok 3 students will design investigations around scientific questions evaluate models of engineering solutions justify conclusions based on experimental data with reasoning and evidence dok 4

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web level 3 strategic thinking requires reasoning planning using evidence and a higher level of thinking than the previous two levels in most instances requiring students to explain their thinking is a level 3 activities that require students to make conjectures are also at this level the cognitive demands at level 3 are complex and abstract

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web i've decided to expand upon my previous depth of knowledge matrix that helped make it easier to distinguish between depth of knowledge levels in mathematics while it is still useful it didn't cover every grade level and may be too broad in scope so i have made two new depth of knowledge matrices one for elementary mathematics and one for

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web sep 21 2015 writing allows us to assess the higher level thinking skills that are central to level 4 argumentative writing and prompts that ask students to synthesize information from multiple sources or works are great ways to get at level 4 dok skills in multi paragraph work students demonstrate synthesis and analysis of complex ideas or themes

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web dok 3 use information or conceptual knowledge two or more steps etc students have practiced these skills with assistance from kindergarten to second grade and on their own since third grade questions that lie at dok 1 necessitate only memorization and recall and so do not promote

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web if there is a question regarding which of two levels a standard addresses such as level 1 level 2 or level 2 level 3 it is appropriate to assign the highest level as the dok ceiling for the task but also provide opportunities at the lower dok levels as an instructional progression e g summarizing a text dok 2 before

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web dec 15 2016 social studies assessments particularly those written to test the history or economic related standards allow teachers to assess the full range of a student s depth of knowledge dok of the content area considering level 1 through 4 dok question stems for social studies can help teachers better pinpoint student understanding and where

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web aug 8 2022 level 1 dok despite a question s simplicity you can still provide your class with many activities having them finish a range of products depending on the question s purpose students can paraphrase a passage or chapter of a book outline and re iterate the main points of a recent lesson

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web dok 1 recall and reproduce dok 2 basic application of skills and concepts dok 3 strategic reasoning dok 4 extended reasoning the questions you can ask in each strand are easy to

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web description this circular poster is based on webb s depth of knowledge which provides a vocabulary and a frame of reference when thinking about our students and how they engage with the content dok offers a common language to understand rigor or cognitive demand in assessments as well as curricular units lessons and tasks

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web apr 19 2019 they soon discovered that there weren t very many dok 4 questions those are really high level tasks some of them needed hints they noticed that there weren t any dok level 3 questions in kindergarten a lot of them had trouble deciding if the questions was a 2 or a 3

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web dec 3 2019 each column explores one of eight topics rounding adding 3 digit numbers subtracting 3 digit numbers multiplying multiples of ten fractions on a number line multiplying and dividing within 100 operations with time and area and perimeter you ll notice that the first problem in the column is traditional and familiar

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web dok level 4 extended thinking this is the most advanced stage of the depth of knowledge framework and involves students making a significant cognitive effort it encourages students to gather information from multiple resources to solve a specific problem it also motivates them to know the how and why of things

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web dok level 3 requires higher cognitive demands than the previous levels students explain justify thinking and provide supporting evidence for reasoning or conclusions drawn level 3 tasks typically require reasoning complexity developing a plan or sequence of steps and have more than one possible response or solution

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web 1 how will you plan to use this in your classroom during whole group or small group instruction and why 2 when do you see the need to use dok question level 3 and dok question level 4 in your classroom 3 looking at your content and standard s objectives create 3 4 questions using dok level 3 and dok level 4

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