

**Expression**

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

Units (32)

Common Symbols

Ready

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

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

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

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

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

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

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

**Kathleen Armour**



## **Software Engineering Mathematics:**

This book delves into Software Engineering Mathematics. Software Engineering Mathematics is an essential topic that needs to be grasped by everyone, ranging 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
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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.

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