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$c^2 = a^2 + b^2 - 2ab \cos C$ ,  $\pi = 1$  radian,  $2\pi$  radians = 360 . Algebra.

Expanding.  $a(b+c) = ab+ac$ ,  $(a+b)^2 = a^2+2ab+b^2$ ,  $(a^?b)^2 = a^2?2ab+b^2$ ,

$(a+b)(c+d) = ac+ad+bc+bd$ ,  $(a+b)^3 = a^3+3a^2b+3ab^2+b^3$ ,

$(a^?b)^3 = a^3?3a^2b+3ab^2?b^3$ . Basic Mathematical Calculations 2-57.

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The 2014 International Conference on Industrial, Mechanical and Manufacturing Science (ICIMMS 2014) was held June 12-13 in Tianjin, China. The objective of ICIMMS 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to present their research

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results and development activities

Convenient access to information from every area of mathematics: Fourier transforms, Z transforms, linear and nonlinear programming, calculus of variations, random-process theory, special functions, combinatorial analysis, game theory, much more.

This book focuses on mathematical theory and numerical simulation related to various areas of continuum mechanics, such as fracture mechanics, (visco)elasticity, optimal shape design, modelling of earthquakes and Tsunami waves, material structure, interface dynamics and complex systems. Written by leading researchers from the fields of applied mathematics, physics, seismology, engineering, and industry with an extensive knowledge of

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mathematical analysis, it helps readers understand how mathematical theory can be applied to various phenomena, and conversely, how to formulate actual phenomena as mathematical problems. This book is the sequel to the proceedings of the International Conference of Continuum Mechanics Focusing on Singularities (CoMFoS) 15 and CoMFoS16.

The first handbook to focus exclusively on industrial engineering calculations with a correlation to applications, Handbook of Industrial Engineering Equations, Formulas, and Calculations contains a general collection of the mathematical equations often used in the practice of industrial engineering. Many books cover individual areas of engineering

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First general account of the mechanics behind pre-industrial technology, combining the skills of an engineer and an archaeologist.

In many areas of mechanics the interplay between mathematics and physics is crucial for understanding not only underlying principles but also practical applications. This is particularly the case in hydrodynamics and elasticity. Over thirty articles in this volume discuss various aspects including perturbation methods and applications, instability, bifurcations and transition to chaos, multibody dynamics and control, mechanics and mathematics of non-classical materials, and new interactions of mathematics and mechanics. The book addresses scientists and engineers working in these areas including those interested in applied mathematical

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analysis.

The Lost Industrial Revolution is a revisionist, well researched work being the definitive account of the roots of the Industrial Revolution that began with Ctesibius in 270 BC at the onset of the Hellenistic Period and continues until the invention of the steam engine by James Watt in 1776, encompassing almost 2000 years of history.

Ever increasing research evidence continues to mount. Having started my research on the connection of the Hydraulis to the roots of the more recent Industrial Revolution at the University of St. Gallen in 1989 over 30 years ago, I continue to identify additional support for it. We do not know whether the beginnings of an

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Industrial Revolution in Hellenistic Greece would have continued if not cut off by the Roman Empire's conquests. Neither do we know whether the more recent (latent) Industrial Revolution could have risen up again in the 17th-century without Vitruvius or Hero of Alexander's preserved writings. The point of this book is to emphasize with new findings that had the Romans not stopped the growth of science and technology in the Hellenistic Period that it would have likely continued to develop into a full-fledged Industrial Revolution. Secondly, the more recent Industrial Revolution borrowed heavily on the technology and science of the Hellenistic Period. In the true sense of the "Renaissance" 17th-century industrial progress largely picked up the written remnants of Antiquity to be able to continue on after a centuries long caesura.

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