

The Mathematical Theory Of Finite Element Methods Texts In Applied Mathematics

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The Mathematical Theory Of Finite

This is a comprehensive introduction to the modular representation theory of finite groups, with an emphasis on block theory. The two volumes take into account classical results and concepts as well ...

The Block Theory of Finite Group Algebras

Beginning with a standard definition of an abstract pattern-recognition machine, "learning" is given a mathematical meaning and ... viewed as problems in the identification of finite mixtures. a ...

Unsupervised learning and the identification of finite mixtures

These two new collections, numbers 28 and 29 respectively in the Annals of Mathematics Studies, continue the high standard set by the earlier Annals Studies 20 ...

Contributions to the Theory of Games (AM-28), Volume II

Edna Andrews clarifies and extends the work of Roman Jakobson to develop a theory of invariants in language by distinguishing between general and contextual ...

Markedness Theory: The Union of Asymmetry and Semiosis in Language

Mathematics is massive area of study - from ... here are some of the quirky areas of maths that astound us. Chaos theory is often called the butterfly effect and is an extremely important ...

5 quirky study areas of maths

for example relating large cardinals to finite combinatorics and natural classes of functions. However, I wish to discuss recent and possible future developments in model theory (a branch of ...

Model Theory and Tame Mathematics

Some of the most extraordinary cross-fertilization of ideas in recent mathematics comes in understanding the details of the distributions of primes, class numbers, ranks of elliptic curves, Frobenius ...

Random Matrix Theory, Quantum Physics, and Analytic Number Theory

Till the end of the 19th century, Laplace's contribution remained the most influential of mathematical probability theory. An extension of Laplace's classical definition incorporated the ...

The origins of probability

Biography Trung Can was born in Ho Chi Minh City, Vietnam. He received the B.A. degree in math from Duke University in 2018. He is currently pursuing the Ph.D. degree with the California Institute of ...

Trung Can

However, unlike the two-body problem, Newton was unable to obtain a general mathematical solution for ... Since the flux is finite even when the volume is infinite, this flux-based approach ...

Novel theory addresses centuries-old physics problem

Quantum key distribution (QKD) can provide information theoretically secure key exchange even in the era of quantum computers. However, QKD requires the classical channel to be authenticated, the ...

Experimental authentication of quantum key distribution with post-quantum cryptography

Erdős, Faber, and Lovász focused their conversation on hypergraphs, a promising new idea in graph theory at the time ... trio can take pleasure in the mathematical innovations their curiosity ...

Mathematicians Settle the Erdős Coloring Conjecture

However, despite extensive research, there is currently no mathematical proof indicating that Lévy walks are, in any manner, preferable strategies in higher dimensions than one. Here, we prove that in ...

Intermittent inverse-square Lévy walks are optimal for finding targets of all sizes

Finite difference and finite volume ... This course is about computing with mathematical objects symbolically. This includes numbers, polynomials, and elementary functions. Galois theory studies roots ...

Graduate Courses

Using set theory in the first part of his book, and proof theory in the second, Gaisi Takeuti gives us two examples of how mathematical logic can be used ... a bounded domain in a finite-dimensional, ...

Publications of the Mathematical Society of Japan

But the theory had been difficult to test until this ... by applying principles common in civil engineering, Kumar used a Finite Element analysis, a computerized model often deployed to test ...

Why the human body has not evolved to make childbirth easier -- or has it?

In fact, I often do little circuit design spreadsheets or even digital design because it forces me to create a mathematical model ... some data and apply a finite impulse response (FIR) filter ...

DSP Spreadsheet: FIR Filtering

This is a comprehensive introduction to the modular representation theory of finite groups, with an emphasis on block ... MathSciNet Markus Linckelmann is a Professor in the Department of Mathematics ...