Cubic

Gary D. Knott

Interpolating Cubic Splines Gary D. Knott,2012-12-06 A spline is a thin flexible strip composed of a material such as bamboo or steel that can be bent to pass through or near given points in the plane, or in 3-space in a smooth manner. Mechanical engineers and drafting specialists find such (physical) splines useful in designing and in drawing plans for a wide variety of objects, such as for hulls of boats or for the bodies of automobiles where smooth curves need to be specified. These days, physi cal splines are largely replaced by computer software that can compute the desired curves (with appropriate encouragment). The same mathematical ideas used for computing spline curves can be extended to allow us to compute spline surfaces. The application ofthese mathematical ideas is rather widespread. Spline functions are central to computer graphics disciplines. Spline curves and surfaces are used in computer graphics renderings for both real and imagi nary objects. Computer-aided-design (CAD) systems depend on algorithms for computing spline functions, and splines are used in numerical analysis and statistics. Thus the construction of movies and computer games trav els side-by-side with the art of automobile design, sail construction, and architecture; and statisticians and applied mathematicians use splines as everyday computational tools, often divorced from graphic images.

Cubic Forms and the Circle Method Tim Browning,2021-11-19 The Hardy–Littlewood circle method was invented over a century ago to study integer solutions to special Diophantine equations, but it has since proven to be one of the most successful all-purpose tools available to number theorists. Not only is it capable of handling remarkably general systems of polynomial equations defined over arbitrary global fields, but it can also shed light on the space of rational curves that lie on algebraic varieties. This book, in which the arithmetic of cubic polynomials takes centre stage, is aimed at bringing beginning graduate students into contact with some of the many facets of the circle method, both classical and modern. This monograph is the winner of the 2021 Ferran Sunyer i Balaguer Prize, a prestigious award for books of expository nature presenting the latest developments in an active area of research in mathematics.

Cubic Zirconia and Skull Melting Yu S. Kuz'minov,E. E. Lomonova,V. V. Osiko,2008 The authors present a new method of producing high-temperature dielectric crystals, including cubic zirconia, glass, and melted ceramic materials, based on direct induction melting in a cold container.

On Models of Cubic Surfaces William Henry Blythe,2013-09 This historic book may have numerous typos and missing text. Purchasers can usually download a free scanned copy of the original book (without typos) from the publisher. Not indexed. Not illustrated. 1905 edition. Excerpt: ...cubics have degenerated into straight lines, their degree is the same, and we obtain the same number of intersections. Hence we may infer that there are two common secants and not more than two. Reye finds the twenty-seven straight lines on a cubic surface by correspondence. Let a cubic surface be generated by three projective pencils at centres S, S', S, and let any plane through S correspond to a straight line in a plane P. We see that this is possible, for any plane in the pencil S may be fixed by its intersection with P in a straight line. Now every plane of the pencil S corresponds to planes in the other pencils which by their intersection fix a point on the surface. Therefore we infer that unless the three corresponding planes intersect in a straight line every point on the surface corresponds uniquely to a straight line in P. Next take another plane P' so that every point in P' corresponds to a straight line in P. This is reciprocal correspondence, for as two points in P' lie on a straight line, so the corresponding straight lines in P intersect in a point. We may take as an example the properties of pole and polar. We finally arrive at the conclusion that to every point on the surface corresponds one, and only one point on P', provided the three corresponding planes of the pencils meet at a point. I. Every straight line on P' corresponds to a twisted cubic on the surface, for every straight line on P' determines a number of straight lines through a point on P, which in turn determine three axial pencils, which by their intersections fix a twisted cubic on the surface. This is not the same kind as the twisted cubic on p. 35, and is said to be of the second species. II. Every plane section of the surface corresponds to a plane...

New and Easy Method of Solution of the Cubic and Biquadratic Equations Orson Pratt,1866 New and Easy Method of Solution of the Cubic and Biquadratic Equations, Embracing Several New Formulas, Greatly Simplifying This Department of Mathematical Science by Orson Pratt, first published in 1866, is a rare manuscript, the original residing in one of the great libraries of the world. This book is a reproduction of that original, which has been scanned and cleaned by state-of-the-art publishing tools for better readability and enhanced appreciation. Restoration Editors' mission is to bring long out of print manuscripts back to life. Some smudges, annotations or unclear text may still exist, due to permanent damage to the original work. We believe the literary significance of the text justifies offering this reproduction, allowing a new generation to appreciate it.

The Geometry of Cubic Hypersurfaces Daniel Huybrechts,2023-06-30 Cubic hypersurfaces are described by almost the simplest possible polynomial equations, yet their behaviour is rich enough to demonstrate many of the central challenges in algebraic geometry. With exercises and detailed references to the wider literature, this thorough text introduces cubic hypersurfaces and all the techniques needed to study them. The book starts by laying the foundations for the study of cubic hypersurfaces and of many other algebraic varieties, covering cohomology and Hodge theory of hypersurfaces, moduli spaces of those and Fano varieties of linear subspaces contained in hypersurfaces. The next three chapters examine the general machinery applied to cubic hypersurfaces of dimension two, three, and four. Finally, the author looks at cubic hypersurfaces from a categorical point of view and describes motivic features. Based on the author's lecture courses, this is an ideal text for graduate students as well as an invaluable reference for researchers in algebraic geometry.

Triangular Cubic Hesitant Fuzzy Einstein Hybrid Weighted Averaging Operator and Its Application to Decision Making Aliya Fahmi,Fazli Amin ,Florentin Smarandache,Madad Khan ,Nasruddin Hassan, In this paper, triangular cubic hesitant fuzzy Einstein weighted averaging (TCHFEWA) operator, triangular cubic hesitant fuzzy Einstein ordered weighted averaging (TCHFEOWA) operator and triangular cubic hesitant fuzzy Einstein hybrid weighted averaging (TCHFEHWA) operator are proposed. An approach to multiple attribute group decision making with linguistic information is developed based on the TCHFEWA and the TCHFEHWA operators. Furthermore, we establish various properties of these operators and derive the relationship between the proposed operators and the existing aggregation operators. Finally, a numerical example is provided to demonstrate the application of the established approach.

Multiplicative Interpretation of Neutrosophic Cubic Set on B-Algebra Mohsin Khalid,Neha Andaleeb Khalid,Hasan Khalid,Said Broumi, Purpose of this paper is to interpret the multiplication of neutrosophic cubic set. Here we define the notation of ϗmultiplication of neutrosophic cubic set and study it with the help of neutrosophic cubic M-subalgebra, neutrosophic cubic normal ideal and neutrosophic cubic closed normal ideal. We also study ϗ-multiplication under homomorphism and cartesian product through significant characteristics.

Cubic Fields with Geometry Samuel A. Hambleton,Hugh C. Williams,2018-11-07 The objective of this book is to provide tools for solving problems which involve cubic number fields. Many such problems can be considered geometrically; both in terms of the geometry of numbers and geometry of the associated cubic Diophantine equations that are similar in many ways to the Pell equation. With over 50 geometric diagrams, this book includes illustrations of many of these topics. The book may be thought of as a companion reference for those students of algebraic number theory who wish to find more examples, a collection of recent research results on cubic fields, an easy-to-understand source for learning about Voronoi’s unit algorithm and several classical results which are still relevant to the field, and a book which helps bridge a gap in understanding connections between algebraic geometry and number theory. The exposition includes numerous discussions on calculating with cubic fields including simple continued fractions of cubic irrational numbers, arithmetic using integer matrices, ideal class group computations, lattices over cubic fields, construction of cubic fields with a given discriminant, the search for elements of norm 1 of a cubic field with rational parametrization, and Voronoi's algorithm for finding a system of fundamental units. Throughout, the discussions are framed in terms of a binary cubic form that may be used to describe a given cubic field. This unifies the chapters of this book despite the diversity of their number theoretic topics.

Neutrosophic Cubic Einstein Hybrid Geometric Aggregation Operators with Application in Prioritization Using Multiple Attribute Decision-Making Method Khaleed Alhazaymeh , Muhammad Gulistan, Majid Khan , Seifedine Kadry, Viable collection is one of the imperative instruments of decision-making hypothesis. Collection operators are not simply the operators that normalize the value; they represent progressively broad values that can underline the entire information. Geometric weighted operators weight the values only, and the ordered weighted geometric operators weight the ordering position only. Both of these operators tend to the value that relates to the biggest weight segment.

Synthetic Treatment of the Twisted Cubic Helena Marie Harrington,1922

The Twisted Cubic P. W. Wood,2015-03-26 Originally published in 1913, this book provides a concise account regarding the properties of the twisted cubic.

Translative and Multiplicative Interpretation of Neutrosophic Cubic Set Mohsin Khalid,Florentin Smarandache,Neha Andalleb Khalid,Said Broumi,2020-07-08 In this paper, we introduce the idea of neutrosophic cubic translation (NCT) and neutrosophic cubic multiplication (NCM) and provide entirely new type of conditions for neutrosophic cubic translation and neutrosophic cubic multiplication on BF-algebra. This is the new kind of approach towards translation and multiplication which involves the indeterminacy membership function. We also define neutrosophic cubic magnified translation (NCMT) on BF-algebra which handles the neutrosophic cubic translation and neutrosophic cubic multiplication at the same time on membership function, indeterminacy membership function and non-membership function. We present the examples for better understanding of neutrosophic cubic translation, neutrosophic cubic multiplication, and neutrosophic cubic magnified translation, and investigate significant results of BF-ideal and BF-subalgebra by applying the ideas of NCT, NCM and NCMT. Intersection and union of neutrosophic cubic BF-ideals are also explained through this new type of translation and multiplication.

P-union and P-intersection of neutrosophic cubic sets Young Bae Jun,Florentin Smarandache,Chang Su Kim, Conditions for the P-intersection and P-intersection of falsity-external (resp. indeterminacy-external and truth-external) neutrosophic cubic sets to be an falsity-external (resp. indeterminacy-external and truth-external) neutrosophic cubic set are provided. Conditions for the Punion and the P-intersection of two truth-external (resp. indeterminacy-external and falsity-external) neutrosophic cubic sets to be a truth-internal (resp. indeterminacy-internal and falsity-internal) neutrosophic cubic set are discussed.

Cubic Scaling Handbook ,1991

NC-TODIM Based MAGDM under Neutrosophic Cubic Set Environment Surapati Pramanik,Shyamal Dalapati,Shariful Alam,Tapan Kumar Roy, Neutrosophic cubic set is the hybridization of the concept of neutrosophic set and interval neutrosophic set.

Novel Neutrosophic Cubic Graphs Structures with Application in Decision Making Problems Muhammad Gulistan,Mumtaz Ali,Muhammad Azhar,Seungmin Raho,Seifedine Kadry, Graphs allows us to study the different patterns of inside the data by making a mental image. The aim of this paper is to develop neutrosophic cubic graph structure which is the extension of neutrosophic cubic graphs. As neutrosophic cubic graphs are defined for one set of edges between vertices while neutrosophic cubic graphs structures are defined for more than one set of edges. Further, we defined some basic operations such as Cartesian product, composition, union, join, cross product, strong product and lexicographic product of two neutrosophic cubic graph structures. Several types of other interesting properties of neutrosophic cubic graph structures are discussed in this paper. Finally, a decision-making algorithm based on the idea of neutrosophic cubic graph structures is constructed. The proposed decision-making algorithm is applied in a decision-making problem to check the validity.

A Study on Neutrosophic Cubic Graphs with Real Life Applications in Industries Muhammad Gulistan,Naveed Yaqoob,Zunaira Rashid,Florentin Smarandache,Hafiz Abdul Wahab, Neutrosophic cubic sets are the more generalized tool by which one can handle imprecise information in a more effective way as compared to fuzzy sets and all other versions of fuzzy sets.

Genetic Theory for Cubic Graphs Pouya Baniasadi,Vladimir Ejov,Jerzy A. Filar,Michael Haythorpe,2015-07-15 This book was motivated by the notion that some of the underlying difficulty in challenging instances of graph-based problems (e.g., the Traveling Salesman Problem) may be “inherited” from simpler graphs which – in an appropriate sense – could be seen as “ancestors” of the given graph instance. The authors propose a partitioning of the set of unlabeled, connected cubic graphs into two disjoint subsets named genes and descendants, where the cardinality of the descendants dominates that of the genes. The key distinction between the two subsets is the presence of special edge cut sets, called cubic crackers, in the descendants. The book begins by proving that any given descendant may be constructed by starting from a finite set of genes and introducing the required cubic crackers through the use of six special operations, called breeding operations. It shows that each breeding operation is invertible, and these inverse operations are examined. It is therefore possible, for any given descendant, to identify a family of genes that could be used to generate the descendant. The authors refer to such a family of genes as a “complete family of ancestor genes” for that particular descendant. The book proves the fundamental, although quite unexpected, result that any given descendant has exactly one complete family of ancestor genes. This result indicates that the particular combination of breeding operations used strikes the right balance between ensuring that every descendant may be constructed while permitting only one generating set. The result that any descendant can be constructed from a unique set of ancestor genes indicates that most of the structure in the descendant has been, in some way, inherited from that, very special, complete family of ancestor genes, with the remaining structure induced by the breeding operations. After establishing this, the authors proceed to investigate a number of graph theoretic properties: Hamiltonicity, bipartiteness, and planarity, and prove results linking properties of the descendant to those of the ancestor genes. They develop necessary (and in some cases, sufficient) conditions for a descendant to contain a property in terms of the properties of its ancestor genes. These results motivate the development of parallelizable heuristics that first decompose a graph into ancestor genes, and then consider the genes individually. In particular, they provide such a heuristic for the Hamiltonian cycle problem. Additionally, a framework for constructing graphs with desired properties is developed, which shows how many (known) graphs that constitute counterexamples of conjectures could be easily found.

Surface Topography of Single Crystals of Face-centered-cubic, Body-centered-cubic, Sodium Chloride, Diamond, and Zinc-blende Structures Robert J. Bacigalupi,1964

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