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This is the concluding article of a three-part series. Part 1 was When the US risks being leapfrogged , and Part 2 was How the US R & D model was wea ...

Better matching of talent, capital is key to renewed US prowess

For Helen Cui's daughter, a 10-year-old rising fifth grader facing the September start of classes, tutoring is a nonnegotiable part of a middle-class Beijing childhood. Her mother, a white-collar ...

China's Crackdown on Pricey Tutoring Schools Upsets Parents

Q2 2021 Earnings CallJul 14, 2021, 10:00 a.m. ETContents: Prepared Remarks Questions and Answers Call Participants Prepared Remarks: OperatorGood morning. My name is Pema, and I'll be your ...

PNC Financial Services (PNC) Q2 2021 Earnings Call Transcript

Playa Largo Resort and Spa in Key Largo, Florida, is paying tribute to International Pineapple Day with a summer-long menu that showcases the fruit's versatility and deliciousness.

Playa Largo Resort and Spa Makes International Pineapple Day a Summer Affair

Instead Barro turned to economics, motivated by the possibility of using his "technical and math background to address social problems ... that "jumpstarted the empirical exploration" of the answers, ...

Topping the Charts

Virginia also won in 2019 and has topped the list five times since it debuted in 2007, passing Texas ... did not specifically answer how he would solve the math of eliminating such a huge portion ...

Is Virginia an economic success or 'in the ditch?' Depends on which candidate you ask.

The phones in our pockets and the Web at our fingertips. The way we live, the ways our children learn and the discoveries that make us excited about the days ahead. None materialized out of thin air.

The CNN 10: Thinkers

June 28, 2007 — -- IDEO, based in Silicon Valley ... you need lots of ideas!" That innovation math is indeed simple, but the trick is to keep them coming at a steady pace.

Ideas Aren't Cheap: Promoting the Serious Business of Play

The laughter that followed was his answer. As he discusses his family ... he admits to being less than stellar at teaching math. "I was actually fired several years ago," he confessed ...

Tim Hawkins - Homeschooling Is Something to Laugh About

In 2007, a year after AWS launched ... from over 8,000 application providers who had over 25,000 software packages available. But here's the key: When they licensed the code from vendors, it was ...

The Many Other High Costs Cloud Users Pay

Even some experts with strong ties to WHO say that political tensions between the U.S. and China make it impossible for an investigation by the agency to find credible answers. Instead ...

Coronavirus Today: Freedom from the Delta variant

Although this represents a considerable rise from 22 percent in 2000, gains have stalled in the last five years, and fourth-graders' math proficiency actually declined in the United States between ...

The Missing Link in School Reform

"I feel like a kid with the answer key." Rob Pace ... He was a remedial reader but had "this math geek thing" and could divide and multiply before he turned 4. His gift for numbers ...

HundredX's big idea: Collect data, do good works

Pretty much just download it, get your key in your email ... And that is what made us rank it at #1. You can do the math for yourself what works best for you but we prefer a one-off over monthly ...

Best Free and Paid Poker HUD Trackers for Windows and MAC

The answer to such a question has economic reasoning ... For us, perception is a key factor. This is where something called attribution comes into play, of which there are three important kinds ...

Evidence Indicates That Universal Basic Income Improves Human Health

Meru Governor Kiraitu Murungi, a key founder of the Jubilee Party, has described it as clueless, rudderless, planless and disorganised, saying it would be a miracle if the vehicle on which President ...

Jubilee Party is as good as dead, declares Kiraitu Murungi

Senators from both parties were surprised at the lack of depth in some of Miers's answers to questions ... Timing and math are key to this entire process. And one more ingredient: unprecedented ...

Fight over Trump's Supreme Court nominee will hinge on timing, math

Most people's answer is 2023 or 2024, which suggests deep pessimism about ... nonpartisan group of 34 high-level doers and thinkers from around the globe, has done the math to come up with a global ...

COVID-19 herd immunity might be closer than it seems

Inspired by the 2007 plastic bag ban ... asks you to anonymously answer "Who's the most likely to..." out of your friends — perfect for the next low-key night or pregame. You may also want ...

The book has two aims: to introduce basic concepts of environmental modeling and to facilitate the application of the concepts using modern numerical tools such as MATLAB and FEMLAB. It is targeted at all natural scientists dealing with the environment: process and chemical engineers, physicists, chemists, biologists, biochemists, hydrogeologists, geochemists and ecologists. FEMLAB is a natural complement to MATLAB, as it is a special tool for those tasks which cannot be performed with the basic MATLAB software.

The study of Euclidean distance matrices (EDMs) fundamentally asks what can be known geometrically given onlydistance information between points in Euclidean space. Each point may represent simply locationor, abstractly, any entity expressible as a vector in finite-dimensional Euclidean space.The answer to the question posed is that very much can be known about the points;the mathematics of this combined study of geometry and optimization is rich and deep.Throughout we cite beacons of historical accomplishment.The application of EDMs has already proven invaluable in discerning biological molecular conformation.The emerging practice of localization in wireless sensor networks, the global positioning system (GPS), and distance-based pattern recognitionwill certainly simplify and benefit from this theory.We study the pervasive convex Euclidean bodies and their various representations.In particular, we make convex polyhedra, cones, and dual cones more visceral through illustration, andwe study the geometric relation of polyhedral cones to nonorthogonal bases biorthogonal expansion.We explain conversion between halfspace- and vertex-descriptions of convex cones,we provide formulae for determining dual cones,and we show how classic alternative systems of linear inequalities or linear matrix inequalities and optimality conditions can be explained by generalized inequalities in terms of convex cones and their duals.The conic analogue to linear independence, called conic independence, is introducedas a new tool in the study of classical cone theory; the logical next step in the progression:linear, affine, conic.Any convex optimization problem has geometric interpretation.This is a powerful attraction: the ability to visualize geometry of an optimization problem.We provide tools to make visualization easier.The concept of faces, extreme points, and extreme directions of convex Euclidean bodiesis explained here, crucial to understanding convex optimization.The convex cone of positive semidefinite matrices, in particular, is studied in depth.We mathematically interpret, for example,its inverse image under affine transformation, and we explainhow higher-rank subsets of its boundary united with its interior are convex.The Chapter on "Geometry of convex functions",observes analogies between convex sets and functions:The set of all vector-valued convex functions is a closed convex cone.Included among the examples in this chapter, we show how the real affinefunction relates to convex functions as the hyperplane relates to convex sets.Here, also, pertinent results formultidimensional convex functions are presented that are largely ignored in the literature;tricks and tips for determining their convexityand discerning their geometry, particularly with regard to matrix calculus which remains largely unsystematizedwhen compared with the traditional practice of ordinary calculus.Consequently, we collect some results of matrix differentiation in the appendices.The Euclidean distance matrix (EDM) is studied,its properties and relationship to both positive semidefinite and Gram matrices.We relate the EDM to the four classical axioms of the Euclidean metric;thereby, observing the existence of an infinity of axioms of the Euclidean metric beyondthe triangle inequality. We proceed byderiving the fifth Euclidean axiom and then explain why furthering this endeavoris inefficient because the ensuing criteria (while describing polyhedra)grow linearly in complexity and number.Some geometrical problems solvable via EDMs,EDM problems posed as convex optimization, and methods of solution arepresented;\eg, we generate a recognizable isotonic map of the United States usingonly comparative distance information (no distance information, only distance inequalities).We offer a new proof of the classic Schoenberg criterion, that determines whether a candidate matrix is an EDM. Our proofrelies on fundamental geometry; assuming, any EDM must correspond to a list of points contained in some polyhedron(possibly at its vertices) and vice versa.It is not widely known that the Schoenberg criterion implies nonnegativity of the EDM entries; proved here.We characterize the eigenvalues of an EDM matrix and then devisea polyhedral cone required for determining membership of a candidate matrix(in Cayley-Menger form) to the convex cone of Euclidean distance matrices (EDM cone); \ie,a candidate is an EDM if and only if its eigenspectrum belongs to a spectral cone for EDM^N.We will see spectral cones are not unique.In the chapter "EDM cone", we explain the geometric relationship betweenthe EDM cone, two positive semidefinite cones, and the elliptope.We illustrate geometric requirements, in particular, for projection of a candidate matrixon a positive semidefinite cone that establish its membership to the EDM cone. The faces of the EDM cone are described,but still open is the question whether all its faces are exposed as they are for the positive semidefinite cone.The classic Schoenberg criterion, relating EDM and positive semidefinite cones, isrevealed to be a discretized membership relation (a generalized inequality, a new Farkas'''''-like lemma)between the EDM cone and its ordinary dual. A matrix criterion for membership to the dual EDM cone is derived thatis simpler than the Schoenberg criterion.We derive a new concise expression for the EDM cone and its dual involvingtwo subspaces and a positive semidefinite cone."Semidefinite programming" is reviewedwith particular attention to optimality conditionsof prototypical primal and dual conic programs,their interplay, and the perturbation method of rank reduction of optimal solutions(extant but not well-known).We show how to solve a ubiquitous platonic combinatorial optimization problem from linear algebra(the optimal Boolean solution x to Ax=b)via semidefinite program relaxation.A three-dimensional polyhedral analogue for the positive semidefinite cone of 3X3 symmetricmatrices is introduced; a tool for visualizing in 6 dimensions.In "EDM proximity"we explore methods of solution to a few fundamental and prevalentEuclidean distance matrix proximity problems; the problem of finding that Euclidean distance matrix closestto a given matrix in the Euclidean sense.We pay particular attention to the problem when compounded with rank minimization.We offer a new geometrical proof of a famous result discovered by Eckart \& Young in 1936 regarding Euclideanprojection of a point on a subset of the positive semidefinite cone comprising all positive semidefinite matriceshaving rank not exceeding a prescribed limit rho.We explain how this problem is transformed to a convex optimization for any rank rho.

This book presents all the publicly available questions from the PISA surveys. Some of these questions were used in the PISA 2000, 2003 and 2006 surveys and others were used in developing and trying out the assessment.

This book intends to develop a sense of understanding towards Linear Algebra. It will introduce a beginner to the basic fundamentals of linear algebra and their properties. The definitions are explained thoroughly and for better understanding various examples have been put forth for each definition. For the practice of students, some examples and results have been kept in each chapter. Important points deduced from theorems are written as remarks for the benefit of students. This book is different from other books because of two main reasons. First, the book contains various solved examples which makes the particular topic more understandable. Second, a number of multiple choice questions/objectives with answer keys are kept for each chapter which will help the students to qualify various competitive examinations. The book consists of six chapters. The first chapter gives a brief introduction of matrices wherein various types of matrices with examples are mentioned. Also, the concept of determinants and adjoint of a matrix are explained briefly along with their properties. The second chapter deals with rank of a matrix, elementary transformations and elementary matrices. An important concept Echelon form of a matrix is mentioned and a method is introduced which explains how to determine rank of a matrix of any order. Third chapter deals with the linear dependence and independence of columns of a matrix and the behavior of matrix equation A X = O . A method is explained which tells how rank of a matrix gives information about the solution of Homogenous and Non-homogenous system of linear equations. Fourth chapter welcomes us with the central concept of linear algebra viz; Eigen values and Eigen vectors of a matrix. Many examples are solved which explains how many linearly independent Eigen vectors exist corresponding to an Eigen value and how to find them all.

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