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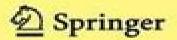
Matrix Theory

Basic Results and Techniques

Second Edition

Matrix Theory Basic Results And Techniques

Pradip Sircar

Matrix Theory Basic Results And Techniques:

Matrix Theory Fuzhen Zhang,2011-08-28 The aim of this book is to concisely present fundamental ideas results and techniques in linear algebra and mainly matrix theory The book contains ten chapters covering various topics ranging from similarity and special types of matrices to Schur complements and matrix normality This book can be used as a textbook or a supplement for a linear algebra and matrix theory class or a seminar for senior undergraduate or graduate students The book can also serve as a reference for instructors and researchers in the fields of algebra matrix analysis operator theory statistics computer science engineering operations research economics and other fields Major changes in this revised and expanded second edition Expansion of topics such as matrix functions nonnegative matrices and unitarily invariant matrix norms A new chapter Chapter 4 with updated material on numerical ranges and radii matrix norms and special operations such as the Kronecker and Hadamard products and compound matrices A new chapter Chapter 10 on matrix inequalities which presents a variety of inequalities on the eigenvalues and singular values of matrices and unitarily invariant norms **Matrix Theory** Fuzhen Zhang,2014-01-15 Matrix Theory David W. Lewis,1991 This book provides an introduction to matrix theory and aims to provide a clear and concise exposition of the basic ideas results and techniques in the subject Complete proofs are given and no knowledge beyond high school mathematics is necessary The book includes many examples applications and exercises for the reader so that it can used both by students interested in theory and those who are mainly interested in learning the techniques **Handbook of Linear Algebra, Second Edition** Leslie Hogben,2013-11-26 With a substantial amount of new material the Handbook of Linear Algebra Second Edition provides comprehensive coverage of linear algebra concepts applications and computational software packages in an easy to use format It guides you from the very elementary aspects of the subject to the frontiers of current research Along with revisions and updates throughout the second edition of this bestseller includes 20 new chapters New to the Second Edition Separate chapters on Schur complements additional types of canonical forms tensors matrix polynomials matrix equations special types of matrices generalized inverses matrices over finite fields invariant subspaces representations of quivers and spectral sets New chapters on combinatorial matrix theory topics such as tournaments the minimum rank problem and spectral graph theory as well as numerical linear algebra topics including algorithms for structured matrix computations stability of structured matrix computations and nonlinear eigenvalue problems More chapters on applications of linear algebra including epidemiology and quantum error correction New chapter on using the free and open source software system Sage for linear algebra Additional sections in the chapters on sign pattern matrices and applications to geometry Conjectures and open problems in most chapters on advanced topics Highly praised as a valuable resource for anyone who uses linear algebra the first edition covered virtually all aspects of linear algebra and its applications This edition continues to encompass the fundamentals of linear algebra combinatorial and numerical linear algebra and applications of linear algebra to various disciplines while also covering up to date software

packages for linear algebra computations **Estimation and Control of Large-Scale Networked Systems** Tong Zhou,Keyou You,Li Tao,2018-06-13 Estimation and Control of Large Scale Networked Systems is the first book that systematically summarizes results on large scale networked systems In addition the book also summarizes the most recent results on structure identification of a networked system attack identification and prevention Readers will find the necessary mathematical knowledge for studying large scale networked systems as well as a systematic description of the current status of this field the features of these systems difficulties in dealing with state estimation and controller design and major achievements Numerical examples in chapters provide strong application backgrounds and or are abstracted from actual engineering problems such as gene regulation networks and electricity power systems This book is an ideal resource for researchers in the field of systems and control engineering Provides necessary mathematical knowledge for studying large scale networked systems Introduces new features for filter and control design of networked control systems Summarizes the most recent results on structural identification of a networked system attack identification and prevention **Linear Algebra Ii: Advanced Topics For Applications** Kazuo Murota,Masaaki Sugihara,2022-07-28 This is the second volume of the two volume book on linear algebra in the University of Tokyo UTokyo Engineering Course The objective of this second volume is to branch out from the standard mathematical results presented in the first volume to illustrate useful specific topics pertaining to engineering applications While linear algebra is primarily concerned with systems of equations and eigenvalue problems for matrices and vectors with real or complex entries this volumes covers other topics such as matrices and graphs nonnegative matrices systems of linear inequalities integer matrices polynomial matrices generalized inverses and group representation theory The chapters are for the most part independent of each other and can be read in any order according to the reader s interest The main objective of this book is to present the mathematical aspects of linear algebraic methods for engineering that will potentially be effective in various application areas **New Directions and Applications in Control Theory** Wijesuriya P. Dayawansa,Anders Lindquist,Yishao Zhou,2005-08-31 This volume contains a collection of papers in control theory and applications presented at a conference in honor of Clyde Martin on the occasion of his 60th birthday held in Lubbock Texas November 14 15 2003 **Trace Inequalities** Airat M. Bikchentaev,Fuad Kittaneh,Mohammad Sal Moslehian,Yuki Seo,2024-12-18 This book is a comprehensive and advanced exploration of trace inequalities in the context of matrices and operators acting on Hilbert spaces Its goal is to present elegant inequalities with innovative proofs Instead of presenting generalized versions that can be complicated and lack clarity the book focuses on beautiful and original inequalities Divided into eight chapters this book is designed for researchers and graduate students in mathematics physics and engineering It provides detailed explanations for most of the results and includes a variety of exercises and problems to help readers understand the content and inspire further research into advanced topics Parameter Estimation for Scientists and Engineers Adriaan van den Bos,2007-08-03 The subject of this book is estimating

parameters of expectation models of statistical observations The book describes the most important aspects of the subject for applied scientists and engineers This group of users is often not aware of estimators other than least squares Therefore one purpose of this book is to show that statistical parameter estimation has much more to offer than least squares estimation alone In the approach of this book knowledge of the distribution of the observations is involved in the choice of estimators A further advantage of the chosen approach is that it unifies the underlying theory and reduces it to a relatively small collection of coherent generally applicable principles and notions **A Textbook of Graph Theory** R. Balakrishnan,K. Ranganathan,2012-11-11 Graph theory has experienced a tremendous growth during the 20th century One of the main reasons for this phenomenon is the applicability of graph theory in other disciplines such as physics chemistry psychology sociology and theoretical computer science This book aims to provide a solid background in the basic topics of graph theory It covers Dirac s theorem on k connected graphs Harary Nashwilliam s theorem on the hamiltonicity of line graphs Toida McKee s characterization of Eulerian graphs the Tutte matrix of a graph Fournier s proof of Kuratowski s theorem on planar graphs the proof of the nonhamiltonicity of the Tutte graph on 46 vertices and a concrete application of triangulated graphs The book does not presuppose deep knowledge of any branch of mathematics but requires only the basics of mathematics It can be used in an advanced undergraduate course or a beginning graduate course in graph theory **Mathematical Aspects of Signal Processing** Pradip Sircar,2016-10-13 Written using clear and accessible language this text provides detailed coverage of the core mathematical concepts underpinning signal processing All the core areas of mathematics are covered including generalized inverses singular value decomposition function representation and optimization with detailed explanations of how basic concepts in these areas underpin the methods used to perform signal processing tasks A particular emphasis is placed on the practical applications of signal processing with numerous in text practice questions and real world examples illustrating key concepts and MATLAB programs with accompanying graphical representations providing all the necessary computational background This is an ideal text for graduate students taking courses in signal processing and mathematical methods or those who want to establish a firm foundation in these areas before progressing to more advanced study *A Course in Linear Algebra* Raju K. George,Abhijith Ajayakumar,2024-02-27 Designed for senior undergraduate and graduate courses in mathematics and engineering this self contained textbook discusses key topics in linear algebra with real life applications Split into two parts theory in part I and solved problems in part II the book makes both theoretical and applied linear algebra easily accessible Topics such as sets and functions vector spaces linear transformations eigenvalues and eigenvectors normed spaces and inner product spaces are discussed in part I while in part II over 500 meticulously solved problems show how to use linear algebra in real life situations A must have book for linear algebra courses it also serves as valuable supplementary material **Mathematical Control Theory I** M. Kanat Camlibel,A. Agung Julius,Ramkrishna Pasumarthy,Jacquelien M.A. Scherpen,2015-07-15 This treatment of modern topics related to

mathematical systems theory forms the proceedings of a workshop Mathematical Systems Theory From Behaviors to Nonlinear Control held at the University of Groningen in July 2015 The workshop celebrated the work of Professors Arjan van der Schaft and Harry Trentelman honouring their 60th Birthdays The first volume of this two volume work covers a variety of topics related to nonlinear and hybrid control systems After giving a detailed account of the state of the art in the related topic each chapter presents new results and discusses new directions As such this volume provides a broad picture of the theory of nonlinear and hybrid control systems for scientists and engineers with an interest in the interdisciplinary field of systems and control theory The reader will benefit from the expert participants ideas on exciting new approaches to control and system theory and their predictions of future directions for the subject that were discussed at the workshop *Theory And Practice Of Control And Systems - Proceedings Of The 6th Ieee Mediterranean Conference* Antonio Tornambe,Giuseppe Conte,Anna Maria Perdon,1999-01-04 This volume gathers together all the lectures presented at the 6th IEEE Mediterranean Conference It focuses on the mathematical aspects in the theory and practice of control and systems including stability and stabilizability robust control adaptive control robotics and manufacturing these topics are under intense investigation and development in the engineering and mathematics communities The volume should have immediate appeal for a large group of engineers and mathematicians who are interested in very abstract as well as very concrete aspects of control and system theory *Convex Optimization & Euclidean Distance Geometry* Jon Dattorro,2005 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 proximitywe 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   **Inequalities: Theory of Majorization and Its Applications** Albert W. Marshall,Ingram Olkin,Barry C. Arnold,2010-11-25 This book s first edition has been widely cited by researchers in diverse fields The following are excerpts from reviews Inequalities Theory of Majorization and its Applications merits strong praise It is innovative coherent well written and most importantly a pleasure to read This work is a valuable resource Mathematical Reviews The authors present an extremely rich collection of inequalities in a remarkably coherent and unified approach The book is a major work on inequalities rich in content and original in organization Siam Review The appearance of Inequalities in 1979 had a great impact on the mathematical sciences By showing how a single concept unified a staggering amount of material from widely diverse disciplines probability geometry statistics operations research etc this work was a revelation to those of us who had been trying to make sense of his own corner of this material Linear Algebra and its Applications This greatly expanded new edition includes recent research on stochastic multivariate and group majorization Lorenz order and applications in physics and chemistry in economics and political science in matrix inequalities and in probability and statistics The reference list has almost doubled

Singular Traces: Volume 1., Theory Steven Lord,Fedor Sukochev,Dmitriy Zanin,2021-07-19 This book is the second edition of the first complete study and monograph dedicated to singular traces The text offers due to the contributions of Albrecht Pietsch and Nigel Kalton a complete theory of traces and their spectral properties on ideals of compact operators on a separable Hilbert space The second edition has been updated on the fundamental approach provided by Albrecht Pietsch For mathematical physicists and other users of Connes noncommutative geometry the text offers a complete reference to traces on weak trace class operators including Dixmier traces and associated formulas involving residues of spectral zeta functions and asymptotics of partition functions   **An Invitation to Morse Theory** Liviu Nicolaescu,2007-08-09 This book offers readers a taste of the unreasonable effectiveness of Morse theory It covers many of the most important topics in Morse theory along with applications The book details topics such as Morse Smale flows min max theory moment maps and

equivariant cohomology and complex Morse theory In addition many examples problems and illustrations further enhance the value of this useful introduction to Morse Theory **Inverse Dynamic Game Methods for Identification of Cooperative System Behavior** Inga Charaja, Juan Jairo,2021-07-12 This work addresses inverse dynamic games which generalize the inverse problem of optimal control and where the aim is to identify cost functions based on observed optimal trajectories The identified cost functions can describe individual behavior in cooperative systems e g human behavior in human machine haptic shared control scenarios Selected Applications of Convex Optimization Li Li,2015-03-26 This book focuses on the applications of convex optimization and highlights several topics including support vector machines parameter estimation norm approximation and regularization semi definite programming problems convex relaxation and geometric problems All derivation processes are presented in detail to aid in comprehension The book offers concrete guidance helping readers recognize and formulate convex optimization problems they might encounter in practice

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web nov 5 2023   trinity retains knockouts championship gail kim gets physically involved at turning point if you buy something from an sb nation link vox media may earn a commission see our ethics statement trinity won t have to worry about one of her toughest rivals in impact any longer the knockouts championship was on the line with a special

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jey uso intercontinental championship gunther c vs the miz women s world championship rhea ripley c vs zoey stark raw closed this week with a big melee that gave us a match

the new world heavyweight champion cageside seats - Jun 11 2021

web may 27 2023   the new world heavyweight champion by geno mrosko may 27 2023 1 38pm edt wwe kicked off today s sat may 27 2023 night of champions premium live event from the jeddah super dome in jeddah saudi arabia with the final of the world heavyweight championship tournament as seth rollins and aj styles came together

rollins will have to beat a phenomenal opponent to win wwe s - Aug 26 2022

web may 13 2023   the tournament to crown wwe s new world heavyweight champion continued on the may 12 smackdown the show had three matches to determine who will challenge seth rollins who emerged as a finalist after raw s three matches earlier this week aj styles edge rey mysterio s first round triple threat opened the episode

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here are the best wwe title designs before cena ruined - Jul 13 2021

web apr 28 2023   wwe is instead introducing a new world heavyweight championship which is different from the wwe championship at night of champions in saudi arabia in late may looking back on 60 years of wwe championship designs which ones are your most loved and hated let us know in the comments below cagesiders

wrestlemania 39 seating chart for sofi stadium tickpick - Mar 21 2022

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wwe championship have a seat 2023 stage gapinc - Apr 09 2021

web the wwe championshipsimon and schuster the three count simon and schuster every saturday night in the eighties fans would gather around their television to watch not saturday night live but saturday night the main event

the miz is the new number one contender to the cageside seats - Jul 25 2022

web 2 days ago   the miz is the new number one contender to the intercontinental championship gunther went back and forth with the miz on monday night raw last week but while they seemed to be setting up a singles match between the two wwe didn t simply go straight to it instead a fatal 4 way was booked with miz getting one of those

wwe championship wikipedia - Sep 07 2023

web the current champion is roman reigns who is in his fourth reign he won the title by defeating brock lesnar in a winner takes all match at wrestlemania 38 night 2 on april 3 2022 subsequently becoming the undisputed wwe universal champion

list of wwe champions wikipedia - Jun 04 2023

web roman reigns is the current champion in his fourth reign he won the title by defeating previous champion brock lesnar in a winner takes all match to unify the wwe championship and universal championship which reigns defended on april 3 2022 at wrestlemania 38 in the dallas fort worth metroplex city of arlington texas

the wwe title featured prominently in the chiefs cageside seats - Aug 14 2021

web feb 13 2023   wwe s been sending versions of the championship which bear the company s name to championship sports teams for years now early on it wasn t always clear what happened to wwe title belts which are customized with the winning team s logo upon delivery

sheamus vows to win the intercontinental championship in 2023 - Nov 16 2021

web jan 1 2023   all of you fine folks gave us star ratings for every pay per view match in 2022 and as my main cat sean rueter wrote about earlier today the sheamus vs gunther banger at clash at the castle back in september was the very best of the year two beefy bigs banging it out over the intercontinental championship can t go wrong there

wwe seating chart guide seatgeek - May 03 2023

web mar 29 2019   over 80 000 people were on hand that night back in 2013 to see john cena defeat the rock for the wwe championship shop wrestlemania tickets money in the bank one of the more unique pay per view events on the wwe calendar is money in the bank which features ladder matches with a briefcase suspended in the air

wwe has pushed roman reigns storyline to a dangerous place - Jun 23 2022

web 1 day ago   roman reigns defeated la knight at crown jewel wwe eventually when you remove the hope and the feeling that anything can happen in wrestling it gets stale the danger that comes with each

the best seat locations at wwe events fan hospitality - Feb 17 2022

web mar 9 2018   ringside according to most fans these are the best seats in the house this is where you can catch the beads of sweat on your face and get caught on camera holding homemade signs while cheering on your favorite wwe superstar sitting ringside is pricey but it s a once in a lifetime treat and you really can t beat the first row

wwe championship wwe - Oct 28 2022

web wwe championship wwe wwe championship championship holder roman reigns time held 583 days wwe championships universal championship 2016 present wwe championship 1963 present world heavyweight championship 2023 present intercontinental championship 1979 present united states championship 1975

la knight says everybody s sick of roman reigns being a part time wwe - Apr 21 2022

web nov 2 2023   la knight is challenging roman reigns for the wwe universal championship at saturday s nov 4 crown jewel premium live event in the kingdom of saudi arabia this is by far the biggest match of knight s career he s going in as the clear underdog considering that roman has been the top champion in wwe for over three

wwe seating chart where are the best wwe seats tickpick - Feb 05 2021

web jan 2 2022   the lettered sections shown above are considered ringside seating and are among the best seats in the house for wwe that being said some fans prefer to sit in the surrounding sections behind the ringside ones because it provides them more elevation to see all the action this is where the debate comes in for what the best seat is for wwe

wwe is bringing back the kickoff match for crown jewel - Jan 31 2023

web oct 31 2023   iyo sky c vs bianca belair for the wwe women s title rey mysterio c vs logan paul for the united states championship cody rhodes vs damian priest john cena vs solo sikoa sami zayn vs jd mcdonagh kickoff match not every nxt ple pre show has featured a match during the past year but several have

logan paul i think i have to be around wwe more after title win - Aug 06 2023

web nov 4 2023   logan paul no one can follow my blueprint 1 56 logan paul discusses winning the united states championship from rey mysterio at wwe crown jewel and his unique journey to the top with marc raimondi

wwe crown jewel 2023 roman reigns winning and 5 smart - Oct 08 2023

web nov 4 2023   getty images wwe crown jewel 2023 headlined by roman reigns vs la knight for the undisputed universal championship is poised to continue the company s impressive stretch of successful

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drew mcintyre fails to make his big moment at crown jewel cageside seats - Sep 26 2022

web nov 4 2023   drew mcintyre fails to make his big moment at crown jewel by geno mrosko nov 4 2023 1 36pm edt when drew mcintyre got his moment it was during the covid pandemic that meant no one was around to see him win the wwe championship at wrestlemania and by the time fans came back to shows his time at the top was up

wwe raw where is wwe raw tonight november 6 2023 - Dec 18 2021

web the november 6 2023 episode of wwe raw will take place at the mohegan sun arena at casey plaza in wilkes barre township pennsylvania it has a capacity of around 10 000 seats and is also the

logan paul thinks he will have to be around more in wwe after - Mar 01 2023

web nov 6 2023   logan paul in just his eighth career match in professional wrestling defeated rey mysterio to win the united

states championship at the crown jewel premium live event yesterday sat nov 4 2023 in riyadh saudi arabia now that he s a champion for wwe does that mean he s going to be around a lot more than the part time schedule

former wwe champion claims he introduced a new move at - Nov 28 2022

web 1 day ago   a former wwe champion recently claimed to have introduced a new move during his match at the crown jewel premium live event the superstar in question is drew mcintyre the scottish warrior squared

wwe stock report john cena is the ultimate company man - May 23 2022

web nov 5 2023   stock down 1 john cena john cena was demolished by solo sikoa at crown jewel losing their match clean after taking 10 samoan spikes john hyped up this match as a must win because he needed to end his 2000 day streak of never winning a singles match on wwe tv or ppv but cena lost and the streak goes on which leaves