

QUANTITATIVE METHODS FOR BUSINESS AND MANAGEMENT

QCF Level 5 Unit

Contents

<i>Chapter</i>	<i>Title</i>	<i>Page</i>
	Introduction to the Study Manual	v
	Unit Specification (Syllabus)	vii
	Coverage of the Syllabus by the Manual	xi
	Formulae and Tables Provided with the Examination Paper	xiii
1	Data and Data Collection	1
	Introduction	2
	Measurement Scales and Types of Data	3
	Collecting Primary Data	5
	Collecting Secondary Data	10
2	Sampling Procedures	13
	Introduction	14
	Statistical Inference	15
	Sampling	16
	Sampling Methods	18
	Choice of Sampling Method	23
3	Tabulating and Graphing Frequency Distributions	25
	Introduction	26
	Frequency Distributions	27
	Class Limits and Class Intervals	29
	Cumulative and Relative Frequency Distributions	31
	Ways of Presenting Frequency Distributions	34
	Presenting Cumulative Frequency Distributions	40
4	Measures of Location	43
	Introduction	44
	Use of Measures of Location	45
	Means	46
	Median	51
	Quantiles	54
	Mode	57
	Choice of Measure	58
	Appendix: Functions, Equations and Graphs	60

Abe Quantitative Methods Study Manual

A. Botinis



Abe Quantitative Methods Study Manual:

Proceedings of the Electrochemical Society Symposium on Diagnostic Techniques for Semiconductor Materials and Devices P. Rai-Choudhury,1997 **Current Practices in Quantitative Literacy** Rick Gillman,2006 Presents a wide sampling of efforts being made on campuses across the country to achieve our common goal of having a quantitatively literate citizenry **Turning Points** Alisa Belzer,2017-09-29 Milestones for adult basic education include It was first federally funded in 1964 The National Literacy Act passed in 1991 The Workforce Investment Act WIA of 1998 was enacted The field then remained relatively static until 2014 when a new version of the GED test was launched new content standards were developed new data on adult cognitive skills were released and the Workforce Innovation and Opportunity Act WIOA with its laser focus on employment and training was enacted This volume reviews where the field is in relation to these turning points and discusses where it could go Taking up critical discussions of the many recent and influential changes as well as topics of enduring interest this volume will be valuable to practitioners researchers and policy makers This is the 155th volume of the Jossey Bass series New Directions for Adult and Continuing Education Noted for its depth of coverage it explores issues of common interest to instructors administrators counselors and policymakers in a broad range of education settings such as colleges and universities extension programs businesses libraries and museums Resources in Education ,1997 Discovering Research Methods in Psychology L. D. Sanders,2009-10-06 This study presents a student friendly introduction to the principal research methodology techniques of psychology Using a narrative approach the text explains the complexities of research and the vital role it has played in the development of the field Brain-image Based Computation for Supporting Clinical Decision in Neurological and Psychiatric Disorders Lin Shi,Feng Feng,Weidong Cai,2021-04-07

Advances in Modeling, Assessment, and Prevention of Geotechnical and Geological Disasters Xiaodong Fu,Yongtao Yang,Min Wang,Zetian Zhang,2022-10-19 **Intonation** A. Botinis,2012-12-06 ANTONIS BOTINIS 1 1 Background This introduction provides essential information about the structure and the objects of study of this volume Following the introduction fourteen papers which represent current research on intonation are organised into five thematic sections I Overview of Intonation II Prominence and Focus III Boundaries and Discourse IV Intonation Modelling and V Intonation Technology Within the sections the papers are arranged thematically although several papers which deal with various aspects of intonation and prosody are basically intersectional As the title indicates Intonation Analysis Modelling and Technology is a contribution to the study of prosody with major emphasis on intonation Intonation and tonal themes are thus the central object of the volume although temporal and dynamic aspects are also taken into consideration by a good number of papers Although tonal and prosodic distinctions have been dealt with throughout man s literate history with reference to the study of language for example by classical philosophers such as Plato and Aristotle it is in recent decades that we have witnessed the most fertile growth in intonation studies as with experimental phonetics and speech technology in general As

Rossi this volume points out intonation research really began to blossom in the sixties with a multi fold increase in prosodic studies reflected in contributions to the International Congress of Phonetic Sciences ICPhS and in the international literature

MAA Notes ,1983 **National Library of Medicine Audiovisuals Catalog** National Library of Medicine (U.S.),

Getting the books **Abe Quantitative Methods Study Manual** now is not type of inspiring means. You could not single-handedly going subsequently books heap or library or borrowing from your links to edit them. This is an unconditionally easy means to specifically get guide by on-line. This online revelation Abe Quantitative Methods Study Manual can be one of the options to accompany you in the same way as having supplementary time.

It will not waste your time. take me, the e-book will very make public you new matter to read. Just invest little grow old to admission this on-line broadcast **Abe Quantitative Methods Study Manual** as with ease as evaluation them wherever you are now.

https://stats.tinkerine.com/files/Resources/Documents/Alle_Mannen_Willen_Maar_N_Ding.pdf

Table of Contents Abe Quantitative Methods Study Manual

1. Understanding the eBook Abe Quantitative Methods Study Manual
 - The Rise of Digital Reading Abe Quantitative Methods Study Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Abe Quantitative Methods Study Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Abe Quantitative Methods Study Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Abe Quantitative Methods Study Manual
 - Personalized Recommendations
 - Abe Quantitative Methods Study Manual User Reviews and Ratings
 - Abe Quantitative Methods Study Manual and Bestseller Lists

5. Accessing Abe Quantitative Methods Study Manual Free and Paid eBooks
 - Abe Quantitative Methods Study Manual Public Domain eBooks
 - Abe Quantitative Methods Study Manual eBook Subscription Services
 - Abe Quantitative Methods Study Manual Budget-Friendly Options
6. Navigating Abe Quantitative Methods Study Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Abe Quantitative Methods Study Manual Compatibility with Devices
 - Abe Quantitative Methods Study Manual Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Abe Quantitative Methods Study Manual
 - Highlighting and Note-Taking Abe Quantitative Methods Study Manual
 - Interactive Elements Abe Quantitative Methods Study Manual
8. Staying Engaged with Abe Quantitative Methods Study Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Abe Quantitative Methods Study Manual
9. Balancing eBooks and Physical Books Abe Quantitative Methods Study Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Abe Quantitative Methods Study Manual
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Abe Quantitative Methods Study Manual
 - Setting Reading Goals Abe Quantitative Methods Study Manual
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Abe Quantitative Methods Study Manual
 - Fact-Checking eBook Content of Abe Quantitative Methods Study Manual
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

Abe Quantitative Methods Study Manual Introduction

In the digital age, access to information has become easier than ever before. The ability to download Abe Quantitative Methods Study Manual has revolutionized the way we consume written content. Whether you are a student looking for course material, an avid reader searching for your next favorite book, or a professional seeking research papers, the option to download Abe Quantitative Methods Study Manual has opened up a world of possibilities. Downloading Abe Quantitative Methods Study Manual provides numerous advantages over physical copies of books and documents. Firstly, it is incredibly convenient. Gone are the days of carrying around heavy textbooks or bulky folders filled with papers. With the click of a button, you can gain immediate access to valuable resources on any device. This convenience allows for efficient studying, researching, and reading on the go. Moreover, the cost-effective nature of downloading Abe Quantitative Methods Study Manual has democratized knowledge. Traditional books and academic journals can be expensive, making it difficult for individuals with limited financial resources to access information. By offering free PDF downloads, publishers and authors are enabling a wider audience to benefit from their work. This inclusivity promotes equal opportunities for learning and personal growth. There are numerous websites and platforms where individuals can download Abe Quantitative Methods Study Manual. These websites range from academic databases offering research papers and journals to online libraries with an expansive collection of books from various genres. Many authors and publishers also upload their work to specific websites, granting readers access to their content without any charge. These platforms not only provide access to existing literature but also serve as an excellent platform for undiscovered authors to share their work with the world. However, it is essential to be cautious while downloading Abe Quantitative Methods Study Manual. Some websites may offer pirated or illegally obtained copies of copyrighted material. Engaging in such activities not only violates copyright laws but also undermines the efforts of authors, publishers, and researchers. To ensure ethical downloading, it is advisable to utilize reputable websites that prioritize the legal distribution of content. When downloading Abe Quantitative Methods Study Manual, users should also consider the potential security risks associated with online platforms. Malicious actors may exploit vulnerabilities in unprotected websites to distribute malware or steal personal information. To protect themselves, individuals should ensure their devices have reliable antivirus software installed and validate the legitimacy of the websites

they are downloading from. In conclusion, the ability to download Abe Quantitative Methods Study Manual has transformed the way we access information. With the convenience, cost-effectiveness, and accessibility it offers, free PDF downloads have become a popular choice for students, researchers, and book lovers worldwide. However, it is crucial to engage in ethical downloading practices and prioritize personal security when utilizing online platforms. By doing so, individuals can make the most of the vast array of free PDF resources available and embark on a journey of continuous learning and intellectual growth.

FAQs About Abe Quantitative Methods Study Manual Books

How do I know which eBook platform is the best for me? Finding the best eBook platform depends on your reading preferences and device compatibility. Research different platforms, read user reviews, and explore their features before making a choice. Are free eBooks of good quality? Yes, many reputable platforms offer high-quality free eBooks, including classics and public domain works. However, make sure to verify the source to ensure the eBook credibility. Can I read eBooks without an eReader? Absolutely! Most eBook platforms offer web-based readers or mobile apps that allow you to read eBooks on your computer, tablet, or smartphone. How do I avoid digital eye strain while reading eBooks? To prevent digital eye strain, take regular breaks, adjust the font size and background color, and ensure proper lighting while reading eBooks. What the advantage of interactive eBooks? Interactive eBooks incorporate multimedia elements, quizzes, and activities, enhancing the reader engagement and providing a more immersive learning experience. Abe Quantitative Methods Study Manual is one of the best book in our library for free trial. We provide copy of Abe Quantitative Methods Study Manual in digital format, so the resources that you find are reliable. There are also many Ebooks of related with Abe Quantitative Methods Study Manual. Where to download Abe Quantitative Methods Study Manual online for free? Are you looking for Abe Quantitative Methods Study Manual PDF? This is definitely going to save you time and cash in something you should think about.

Find Abe Quantitative Methods Study Manual :

~~alle mannen willen maar n ding~~

~~all the pretty horses book 1 of the border trilogy~~

~~all the stuff you need to know about rving~~

~~all in against the irs every gamblers tax guide~~

all in scarlet uniform napoleonic war

all star driver education book answers

alle toeristische fietsroutes in nederland 101 geselecteerde routebeschrijv catloog

allegro bay motorhome manual

all about market indicators all about series

all day fat burning diet food cycling metabolism

algebraic topology algebraic topology

all that happened at number 26 all that happened at number 26

all answers for james mcclave statistics

alice faye a life beyond the silver screen hollywood legends series

allen bradley panelview plus 1000 manual

Abe Quantitative Methods Study Manual :

liturgy and prayer suggestions uscch - Oct 26 2022

web a petition prayer to the sacred heart of jesus 1 catholic online prayers o sacred heart of jesus i fly i come to thee
throwing myself into the arms of thy tender mercy

catholic petition prayer examples orientation sutd edu - Mar 19 2022

prayer of petition examples catholic - Dec 28 2022

web aug 2 2023 prayer 1 go to an written word of god 2 consult with the holy spirit 3 write your petition the following is an
example of a petition for healing be into all

prayer as petition simply catholic sample prayers of the - Jul 23 2022

web jan 21 2023 example of a petition prayer prayers of brightness these assort the petitions represent commonly
associated with asking for god s revelation plus will be

prayer for petition examples churchreaders com - Nov 26 2022

web a for the church b for the life and salvation of the world c for those weighed down by various needs d for the local
community e for vocations to the priesthood to each

prayers of petition and intercession - Jul 03 2023

web sep 10 2023 prayer petitions for september 24 2023 sunday twenty fifth week in ordinary time september 24 2023the
best catholic god has made an everlasting

free prayers of the faithful mass petitions - Feb 27 2023

web examples a we remember with gratitude the gift that the life of name was for us his her friendship joy smiles intelligence etc lord hear us we ask for god s special

25 prayers of petition when seeking god s help - Jun 02 2023

web dec 31 2019 the prayers of the faithful are an important part of a catholic mass and they are also used in other liturgies and forms of christian worship in them the church

intentions lay leaders of prayer pray campus ministry - Jun 21 2022

web may 13 2022 jesus in his own prayer at gethsemane offers an example of how to pray this way father if you are willing take this cup away from me still not my will but

petition prayer example meaning living prayers - Jan 29 2023

web aug 2 2023 jesus in his own prayer at getseman offers an example of how up pray this way father if you are desire take this jug away starting me still not my will but its be

25 catholic prayer intentions examples prayer request daily - Sep 05 2023

web some examples of prayers of petition and intercession during mass are penitential act c your were sent to heal the contrite of heart lord have mercy all lord have mercy you

prayer for petitions catholic churchgists com - Jan 17 2022

a petition prayer to the sacred heart of jesus catholic online - May 21 2022

web jul 10 2019 these prayer of petition examples are often granted as part of god s plan for us and others praying for strength to get through a tough situation praying for healing

prayer of petition examples definition lostflock com - Dec 16 2021

prayer as petition simply catholic petition prayer example - Aug 24 2022

web may 30 2023 catholic petition prayer examples therefore plain simply stated the catholic petition prayer examples is internationally harmonious with any devices to

prayer as petition simply catholic petition a collection of - Feb 15 2022

daily prayer petitions the best catholic - Mar 31 2023

web prayers from the sacramentary the following prayers focus on civic duty and the well being of our city state and nation as well as our leaders they may be used for weekday

prayer for petitions catholic church readers com - Apr 19 2022

web various forms of prayer are presented in the catechism of the catholic church ccc 2623 2649 these various forms include prayer of blessing or adoration prayer of petition

prayer of petition meaning 6 powerful examples - May 01 2023

web what is an example of a petition prayer prayer of petition examples that have a good chance of not being granted could be praying to hit the lottery even if making a deal

catholic prayers usccb - Nov 14 2021

prayer as petition simply catholic - Aug 04 2023

web jun 9 2022 1 prayer of petition for my family father thank you for being in control and that we can trust you with all things help me to remember that you have my best

funeral prayers of petition gathered examples - Sep 24 2022

web oct 8 2022 examples of catholic prayers for petitions there are many different types of prayers that can be used for petitions but here are a few examples of catholic

prayers of petition catholic stand - Oct 06 2023

web sep 22 2022 prayer of petition lord help us pray with all our heart and all our mind and all our soul for as long as we are able when our strength or courage or faith wavers strengthen our determination when our determination fades let us remember the

matura choices test 8 pdf pdf linguisticschool com - May 11 2023

web mar 14 2023 matura choices test 8 pdf right here we have countless books matura choices test 8 pdf and collections to check out we additionally offer variant types and

matura choices upper intermediate module 8 quizlet - Aug 14 2023

web start studying matura choices upper intermediate module 8 learn vocabulary terms and more with flashcards games and other study tools

matura choices test 8 wrbb neu edu - Dec 06 2022

web 2 matura choices test 8 2021 02 07 the modification and in some instances abandonment of external examinations this edited volume brings together the

matura choices test 8 dev eequ org - Nov 05 2022

web matura choices test 8 sprawdzianyonline sprawdziany i odpowiedzi do szko y april 29th 2018 sprawdziany ze wszystkich przedmiotów które napotkasz w szkole w plikach pdf

8 sınıf İngilizce testleri 8 Ünite test soruları - Jul 13 2023

web 8 sınıf İngilizce testleri 8 Ünite test soruları chores sınıf ders 8 sınıf İngilizce Ünite adı chores ev işleri soru sayısı 10 konu başlıkları chores ev işleri

test 8 matura other quiz quizizz - Mar 09 2023

web preview this quiz on quizizz vibrant test 8 matura draft 1st 5th grade 0 times other 0 average accuracy 27 minutes ago
mz rapkiewicz 50724 0 save edit edit

pre intermediate intermediate placement test - Jun 12 2023

web 8 when do you usually the cinema a go on b go to c go d do 9 i m not into stamps i think it s boring a having b saving c
keeping d collecting 10 andrea enjoys jewellery in her free

matura choices test 8 online kptm edu my - Apr 29 2022

web matura choices test 8 istituto comprensivo statale g xxiii melissa kr home international qualifications university of oxford
management sciences bsc hons undergraduate

matura choices test 8 uniport edu ng - Nov 24 2021

web matura choices test 8 1 7 downloaded from uniport edu ng on july 5 2023 by guest matura choices test 8 this is likewise
one of the factors by obtaining the soft

matura choices test 8 uniport edu ng - Oct 24 2021

web may 26 2023 matura choices test 8 1 6 downloaded from uniport edu ng on may 26 2023 by guest matura choices test 8
if you ally dependence such a referred matura

8 sınıf türkçe yazılı soruları 2023 2024 sorubak com - Jan 27 2022

web bu kategoride 2023 2024 8 sınıf türkçe yazılı soruları ve cevapları yer almaktadır 8 sınıf türkçe yazılı soruları cevap
anahtarlı test klasik ve boşluk doldurma şeklinde

matura choices test 8 copy pqr uiaf gov co - Oct 04 2022

web this matura choices test 8 as one of the most in action sellers here will agreed be in the middle of the best options to
review student s notebooks new york state library

matura choices test 8 - May 31 2022

web kaplan s 8 practice tests for the new sat features 8 realistic full length practice tests for the new sat with detailed
answer explanations more than 450 math grid ins and

matura choices test 8 uniport edu ng - Dec 26 2021

web jun 19 2023 matura choices test 8 1 8 downloaded from uniport edu ng on june 19 2023 by guest matura choices test 8
right here we have countless ebook matura

[matura choices test 8 bespoke cityam](#) - Mar 29 2022

web every book gatherings matura choices test 8 that we will absolutely offer in the trajectory of them is this matura choices test 8 that can be your associate you could buy

maturachoice test 8 download only ramachandran - Feb 08 2023

web mah cet llb 3 years exam prep book 2022 1500 solved objective questions for mht cet 8 full length mock test 8 sectional tests nature versus natural selection

[matura choices test 8 pdf ww gestudy byu edu](#) - Aug 02 2022

web jun 26 2023 as this matura choices test 8 pdf it ends stirring swine one of the favored ebook matura choices test 8 pdf collections that we have this is why you remain in

matura choices test 8 esports bluefield edu - Jul 01 2022

web those all we have enough money matura choices test 8 and numerous books collections from fictions to scientific research in any way in the midst of them is this matura

8 sınıf türkçe yazılı soruları 2023 2024 hangisoru com - Feb 25 2022

web 8 sınıf türkçe dersi yazılı sınavları test klasik kompozisyonlu kompozisyonlu açık uçlu soru tipleri gibi birbirinden farklı soru tipleriyle güncel meb müfredatı ve kazanımları

matura choices test 8 uniport edu ng - Sep 22 2021

web apr 27 2023 matura choices test 8 1 7 downloaded from uniport edu ng on april 27 2023 by guest matura choices test 8 as recognized adventure as without difficulty as

[8 sınıf testleri morpa kampüs](#) - Apr 10 2023

web 8 sınıf matematik dersi gerçek sayıları tanıma rasyonel ve İrrasyonel sayılarla İlişkilendirme konusunun testi 8 sınıf matematik

matura choices test 8 uniport edu ng - Sep 03 2022

web jun 5 2023 matura choices test 8 2 7 downloaded from uniport edu ng on june 5 2023 by guest update on current developments in english studies across poland from the

8 sınıf kazanım tarama testleri 2021 2022 meb - Jan 07 2023

web ordu Ölçme değerlendirme merkezi tarafından 2021 2022 eğitim öğretim yılında hazırlanan 8 sınıf kazanım tarama testleri düzenli olarak bu sayfadan yayınlanacaktır

list of little miss characters facts for kids - Sep 27 2021

i am little red - Dec 31 2021

amazon com little miss red 9780142411230 palmer - Sep 20 2023

feb 9 2010 with little miss red one of my favorite ya authors robin palmer has once again taken an ancient fairy tale and given it a modern la girl twist here sophie greene is sick of

quote by roald dahl little red riding hood and the wolf - Dec 11 2022

listen to little miss red on spotify artist 0 monthly listeners

little red riding hood wikipedia - Oct 09 2022

little miss red wiki virtual space amino - Aug 07 2022

2 177 followers 748 following 352 posts see instagram photos and videos from miss red little miss red

little miss red u littlemissred reddit - Nov 10 2022

when she was no more than nine she found herself well with wielding tossing and aiming daggers the color red being her favorite mother knitted her a hunters cloak she went around

miss red little miss red instagram photos and videos - Apr 03 2022

oct 11 2023 hamas s qassam brigades has released a video appearing to show the release of a female hostage and two children the footage aired on al jazeera on wednesday night was

little red 2012 imdb - Feb 01 2022

oct 16 2023 little miss giggles is the 14th book in the little miss series little miss giggles is blue with freckles a yellow nose red hair and yellow barrettes little miss giggles can t stop

thelittlemissred thelittlemissred tiktok - Mar 02 2022

little miss red white blue pageant 239 likes the little miss red white blue pageant is for girls 6 12 years of age allowing them to show thei

little miss red white blue pageant facebook - Oct 29 2021

little miss red audible audiobook unabridged - Jun 17 2023

with little miss red one of my favorite ya authors robin palmer has once again taken an ancient fairy tale and given it a modern la girl twist here sophie greene is sick of being told

little miss red robin palmer google books - Jul 18 2023

feb 9 2010 little miss red robin palmer penguin young readers group feb 9 2010 young adult fiction 320 pages the ideal l a fairy tale for fans of once upon a time and

list of little miss characters wikipedia - Aug 19 2023

little miss calamity was a new little miss character created for the mr men show little miss calamity was almost always in trouble usually the trouble started with some normal activity which invariably went terribly wrong she spoke with a jewish accent and her catchphrase was what a calamity in the us and uk versions miss calamity was voiced by prudence alcott and aline mowat resp

littlemissred x twitter - Jun 05 2022

sep 30 2012 little red directed by tate bunker with libby amato mark metcalf hannah obst paige bunker rachel sets off on a secret trip but is followed by a prowler who has a

little miss red spotify - Sep 08 2022

play the mr men little miss bingo this red nose day download colour me for red nose day colour the picture or just be creative and use the colours you like best download red nosey

official mr men little miss website - Apr 15 2023

little miss red 2018 cast and crew credits including actors actresses directors writers and more

little miss red 2018 full cast crew imdb - Jan 12 2023

little red riding hood is a european fairy tale about a young girl and a sly wolf 1 its origins can be traced back to several pre 17th century european folk tales the two best known

loading interface goodreads - Feb 13 2023

u littlemissred petite redhead who s ready to make some content for you on my onlyfans onlyfans com littlemissred1997 c1

amazon com customer reviews little miss red - May 16 2023

i was crushed it was like finding out the truth about santa claus and the tooth fairy and the easter bunny in one sitting robin palmer little miss red tags love 15 likes like all

hamas video appears to show release of woman two children - Nov 29 2021

activities archive mr men little miss hub - May 04 2022

i am little red is a 10 minute animated short aimed at children most at risk for sex trafficking e g foster care runaway lgbtq homeless and adopted children with the goal of

little miss red quotes by robin palmer goodreads - Mar 14 2023

nov 8 2022 till little miss red riding hood comes home from walking in the wood he quickly put on grandma s clothes of course he hadn t eaten those he dressed himself in

little miss red short 2018 imdb - Jul 06 2022

thelittlemissred thelittlemissred on tiktok 221 3k likes 8 7k followers hey nice to meet you i m red more of me on ig red

watch the latest video from