June 9, 2010

Channel Comments (111)



penguuinz (13 hours ago)

You're awesome! You've helped me out so much this quarter, and I'd just like to say thanks :)



rj3green (3 days ago)

Thanks for the videos. Unfortunately my professor doesn't solve real examples in class so it becomes very difficult to learn the material, especially with a midterm exam coming up. These videos will hopefully allow me to pass the course.



charity924 (3 days ago)

best professor i have ever seen



deen2dam (5 days ago)

Excellent sir! i wish u would be our university lecturer too.



miidoxi (6 days ago)

I have my term exam in numerical tomorrow and i left all things and rest infront of your videos it's really teaches how to understand then how to solve too, thanks. hope do well in exams.



footbagverde (1 week ago)

very helpful sir.. thanks



mOnev17 (2 weeks ago)

Appreciate your videos!!! extremely helpful!!! thank you



s1u8n (3 weeks ago)

fantastic stuff!



rahsan11 (3 weeks ago)

Sir u are very good teacher,



afrocarter90 (3 weeks ago)

most excellent lectures



Zuneowner (3 weeks ago)

LIFE SAVER !!!!!



m3an55 (1 month ago) thank u so much



priyansh12c (1 month ago)

thank you sir...... you are an excellent teacher..... your videos have been a great help.



aparnaphilip (1 month ago)

Thank You very much professor! I was having some troubles with Taylor series and now I'm much better off to take my AP Calculus BC exam :)



romeoamu87 (1 month ago)

the world needs more people like you, taking your free time to teach, in way its very touching, the lectures are great and easy to follow thanks a trillion times



motomodder123456789 (1 month ago)

this is simply great!!! I really appreciate your efforts in helping all students



divinenuker (1 month ago)

Amazing Stuff Professor!

Would it be possible for you to add a little bit about Finite Element Method?

Just a quick 5 - 10 minute video?

Thanks!!



1chandramanishukla (1 month ago)

HEllo Sir, I am a B.Tech. student from IIT Kanpur, i was going to fail my numerical methods course (as the class was 8 in the morning);) ... i googled for 'runge kutta example', and you showed up on Youtube ... your videos helped me a lot, thanks for reaching out to the net community with such knowledge and clarity of methods



strawberry5999 (1 month ago)

amazing elaboration! Thankyou so much



jamescboyd (1 month ago)

Thank you, sir! You are an excellent teacher.



clayaputexas (1 month ago)

Thanks so much for your time! These videos are so helpful and im sure i will refer back to them throughout the rest of my collegiate career!



olgis (1 month ago)

thank you very much! Your videos have explained the subject more thoroughly than my prof did. :)



clemernitsch (2 months ago)

Very good videos!! What a nice explanation! U r an excellent teacher $\odot \odot$ Thanks for the videos.



saulhidalgo (2 months ago)

Thanks you very much for your videos. They helped me a lot =D



vss2388 (2 months ago)

My professor should watch your videos and learn how to teach the class......lol.....



avatarDelCaos (2 months ago)

Your classes are priceless, I'm from Venezuela, thanks a lot for your work, I'm learning a lot.



jessedoran (2 months ago)

amazing! can actual understand whats going on with these explainations! Keep up the good work! Impossible to follow my own prof!



yesse17 (2 months ago)

Great lectures!



pemulung (2 months ago)

Many professors but few are good in teaching. This is very very nice



InspectorStrange (2 months ago)

Thank you so much. You're videos are so fantasticly helpful.



FriskyBat (2 months ago)

I really appreciate your work, you are a true philanthropist!



orlandoryo (2 months ago)

Great videos!!! Thanks a lot!!!



outlawkelb (2 months ago)

This is trule very helpful, i have an exam on friday many of the stuff you covered. thanks.



f0r3v3r88 (3 months ago)



saleemo20 (3 months ago)

hello professor! i am really enjoying your lectures and you are very clear in you explanations. however i am really trying to look for cubic spline interpolation lecture, and numerical integration using rectangle rule and adaptive quadrature, but i failed to get it. do u have them by any chance?



tineefulify (3 months ago)

thanks alot sir.



tineefulify (3 months ago)

can you post lectures about bit transistor modeling



OHmygodXoBil3 (3 months ago)

Very clear, and you are currently helping me pass my calculus class, we need more people like you to educate the world!



alexluarizona (3 months ago)

You are very good at teaching, please upload more videos I like the way you teach, simple and clear.



ajaymanful (3 months ago)

Professor,

Can you please post the Cholesky decomposition technique for finding the transpose of a matrix?...Thanks..



nufnuh (3 months ago)

Thank you so much! I've got an A- without attending any lectures at my uni.



ajaymanful (3 months ago)

There are many people who seek money for teaching..But you didn't expect anything and teaching online for free....Hats off to you sir!!!!!!!!



ajaymanful (3 months ago)

Thank you so much..Even my professor wasn't very much clear and concise as you were..Thanks a lot again..



VeemanLTTE (3 months ago)

Thanks for the videos



kearabiloe (3 months ago)

dont know what would i have done without you.....



darklordamit (3 months ago)

Greetings from Bangladesh.

Thanks a lot Sir:) the tutorials are simply outstanding.

I will also recommend these video tutorials to my classmates.



eyebeehk (3 months ago)

Extremely clear and concise. Thank you SO MUCH!



umair4x4 (4 months ago)

great teacher....ur videos are VERY helpful! ;)



VannaVolga (4 months ago)

Thanks very much for these videos - very clear presentation and great quality!



alexluarizona (4 months ago)

Thank you. We need professional like you to spread knowledge that everyone can learn. Please keep up the great wok.



2112dim (4 months ago)

People like you are the reason for studying maths as a hobby...THANK YOUTUGreets form Greece!



jorgealbertor (4 months ago)

you saved my life!! thank you so very much



SparkleNut91 (4 months ago)

Thank you sooooooooooooo much for these videos , its really helped me much

Really really thnx , God Bless You ..



IIrnr (4 months ago)

Oh, my! Your channel, sir, is a gold mine! I wish to express my gratitude for taking the time to explain things so clearly and for the effort you put into producing such good quality recordings.

Talking about methodology: it is just what most professors I've seen constantly lack, especially the ones from the math and mechanics chairs.



dazmurphy05 (4 months ago)

You are the bees knees my friend...thanks a million



GeniusBoy88 (5 months ago)

Thank you very much for the videos you've posted. They helped me through my Numerical Analysis course & I don't feel my grade would've been what it was without your assistance. Thanks again!



tooraf (5 months ago)

thank you, you're much better than my maths teacher.

Ali:)



musicman1234567890 (5 months ago)

Your videos have been very helpful for me and my friends in studying for our difficult Numerical Methods course. Thank you very much for uploading these videos!



mikicat81 (6 months ago)

Thank you very much Professor for your contribution to the math world. Greetings from Chile!!!



msadlsuust (6 months ago)

Thanks sir! with your video about Euler's Method, I was able to understand the way it should be solved! Hope you'll be able to upload more videos in higher math subject! Thank you

-A B.S Chemical Engineering in De La Salle University Manila:)



AbhishekPanigrahi (7 months ago)

hi

first off...thanks a ton!!i am expecting an A in numerical methods course this semester....

i request you to kindly put up videos for "shooting method", "orthogonal colloation method", "adam bashford " , "adam moulton" and "predictor corrector technique"

extremely grateful student :)



SnakeEater1912 (7 months ago)

Simpson rules please,. SPACE UTM student.



2112dim (7 months ago)

I have great difficulties in understanding the Muller's method for solving non-linear equations, could you please post a video?Thank you.



numericalmethodsguy (7 months ago)

maryamahmed01 - thank you. Other decompositions will not be added as they are not part of the syllabus. It takes about \$200/hour for personnel and studio rent time to do these videos, and the grant is limited to a typical numerical methods course syllabus.



maryamahmedO1 (7 months ago)

Hi - you're an absolute God send! Because of you I'm hoping for an A in my numerical analysis class this semester:)

Can you also add other decompositions to your list? Like Cholesky, Schur, and Principal Decompositions? Thanks!!



jcsp101 (7 months ago)

Really helpful stuff.

But you're missing Gauss Seidel Method :(



2112dim (7 months ago)

Thank you, really helpful comment.



aimizie (7 months ago)

you helped me get an A- in numerical methods and optimisation last semester! do you do other chemical engineering courses? process controls maybe? =(



f0r3v3r88 (7 months ago)

If all professors can lecture like you, no one would fail in this world



numericalmethodsquy (7 months ago)

2112dim - you can use any software. Fortran 77 is enough. If I had to choose, I would go for C++.



2112dim (7 months ago)

Hello!My question is:What kind of software do I have to use in order to study numerical methods?Is a Fortran77 compiler enough,or do I have to use Mathematica as well?Please visit my channel,thank you!



barat3786 (7 months ago)

u'r amazing!!!!!thankx...

from uitm, malaysia student



zkhudson (8 months ago)

Love your videos they are amazing and easy to understand. Major help in my Differential Equations class. Thanks!!!



inspiration4him1 (8 months ago)

Thanks a great bunch for your wonderful videos. You are going to be a life saver in my fast moving differential class. Much appreciated!!



3SmartyPants (8 months ago)

Because of you I now understand Bisection and Newton-Raphson Methods. Would you happen to know how to do this in Matlab (or preferrably Octave)?



PeidoVelho (8 months ago)

I've never had a lecturer that can explain concepts as clearly and quickly as you can. Thank you so much, you have really helped!!



lapitburaytitibuday (9 months ago)

Hey man! You are an awesome guy.. Can you explain to us what is a fixed point method.. I've been searching the internet on how to find roots using that method but sadly I cant understand what the texts are saying.. hope you enlighten us..



arejayzee (10 months ago)

Got an A in my modeling methods class thanks to you, THANK YOU!!



GoliathofGath (10 months ago)

Man its the most interesting and easiest course I have ever taken. At least it makes sense lol.

Thank you Sir.



ramjam19 (11 months ago)

Thank you very much... it's people like you who make the world a better place. God bless you!!!!



CubbeliSiken (11 months ago) you rock! i mean numerically



crkotina (1 year ago) wow, amazing lessons. Thank you!



pablopez (1 year ago)

I will pass my exams because of you. Thanks!



zfarah1 (1 year ago)

Thank you very much for you videos. Making my life at uni so much easier.



abraham4all (1 year ago)

hi , your lectures are absolutely useful , i was so bored with this module but now you made me love it . thank you so much . all the best from UK



numericalmethodsguy (1 year ago)

I am humbled by all the channel and video comments. Please spread the word and tell other students about this useful resource. My advice to learning is simple: "If you don't let a teacher know at what level you are - by asking a question, or revealing your ignorance - you will not learn or grow. You can't pretend for long, for you will eventually be found out. Admission of ignorance is often the first step in our education" - (Steven Covey, 1990)



Jray087 (1 year ago)

Thank you for your videos, you are a great lecturer.



heminapatel85 (1 year ago)

thank you so much, these videos are very helpful now only if you could help me comprehend Real Analysis I might survive my final year in college.



numericalmethodsguy (1 year ago)

The videos for introductory PDE numerical methods are slated to be videotaped in Summer 2010.



btrettel (1 year ago)

I wish you had joined YouTube last year! These videos are great and I'm suggesting them to many people. I don't know if it's planned, but anything on PDE would be very greatly appreciated.



rambocommando (1 year ago)

Hi, I just wanted to say thank you so much for your videos ... they are very clear, and extremely helpful!!!



fooshizzlemahnizzle (1 year ago)

if all the professors were like you, maybe anyone can be an engineer haha! just exaggerating haha. ur one of the best teachers here, just like donylee, who i also watch videos from to get extra reference. i'm taking up analytical and numerical methods in civil engineering 2 this summer and i might be watching your videos a lot! thanks! cheers from the philippines!



9894351513 (1 year ago)



juvenalmuniz (1 year ago)

Thank you very much, Sir!

Your lectures seem air bubbles in this deep numerical methods ocean that I was sinking. Now I can return to the surface and follow my classmates on an equal footing!

Best regards from Brazil :-)



Ren520 (1 year ago)

hi, can u do some examples on lagrange error bound/.?/

thanks.



vristevski (1 year ago)

This is another great idea from a great USF professor. It is good that we can see more educational videos instead of junk videos on the site.



markpatrick2006 (1 year ago)

I wish you were my teacher, you explain it so well, you just saved my ass on a midterm, thanks so much!



mrslow12345 (1 year ago)

oh wow this is really goood amazing very good idea thank you SO so much, although i'm guessing more is comming right because i need a "n" number of intervals for the simpsons 1/3 rule :S



tfsimon (1 year ago)

thanks a lot for these videos, they are a great help!



numericalmethodsguy (1 year ago)

I am glad that you are able to use what is given on the channel for your graduate school.



atypicalcalifornian (1 year ago)

nice channel, im using a lot these types of numerical techniques from my MS studies. I think this stuff is pretty interesting!



sakuraniimi (1 year ago)

Thanks now, it became more understandable i am waiting your videos....do u know why because i am using these lectures to educate my students... yes i am giving this lecture in my university, starting from this semester and i think your site is the best... best regards from turkey:)



numericalmethodsquy (1 year ago)

Superb advice. About 5 playlists have been made and will be made as more videos get on board.



sakuraniimi (1 year ago)

Hi, i have a advice, it is better to understand your lectures in groups, if you collect your videos in playlist, it is appreciated. thanks



sakuraniimi (1 year ago)

superb channel i really liked it, please keep going and uploading your explanations are very easy to understand thanks

Euler's Method: Example Comment

Total video views: 23,157

1 month ago

June 9, 2010

All Comments (41)

gntinos 3 weeks ago	Thanks a lot for the time spent to create that helpful tutorial!
mohkam03 1 month ago	how do i get h is the question only states there are two steps of equal size?
numericalmethodsguy 1 month ago	@mohkam03 The user chooses h. It is chosen to be same for all steps to keep the programming simple and scientific, unless you are using adaptive methods. So if the initial value of y is give at xb=0 and you want to find y at xf=5, you need to choose h so that (xf-xb) is divisible by h. Smaller the value of h, smaller will be the error in the final result.
mohkam03 1 month ago	@numericalmethodsguy I am still confused I gives me f(1)=-2. Dy/Dx=x-y-1. It wants me to solve for F(1.4) using Euler's method, starting at x=1 while using two steps of equal size I used .4 for my n and I got -1.52, but the answer is -1.24
numericalmethodsguy 1 month ago	@mohkam03 Give me the complete problem statement as given.
mohkam03 1 month ago	@numericalmethodsguy i figured it out! thank you for the help!
Raguvian 1 month ago	Thanks a lot, your explanation was much easier to understand than my professor's explanation of this method.
bournefury	Amazing videos sir! This just saved me on a calc test!

gorski1986

where does he get x(0) = 0 from?

1 month ago

numericalmethodsguy @gorski1986 The initial value of y is given at x=0. So x

1 month ago

subscript 0=0.

Monatee

thanks!

2 months ago

parthibangemini1985 awesome teaching

2 months ago

ralex321

Thanks for reteaching me Euler's Method. This thing

always gets me. 3 months ago

Coutureprincess0303 How would I find the true value?

4 months ago

4 months ago

numericalmethodsguy. Go to the playlist on the numericalmethodsguy.

channel, and see the primer on ODEs. See the first

video.

markov2b1 4 months ago Great job. Excellent teaching. THe only thing I want to

mention, you need to slow down when you say

"particular". You kind of say it really fast, like

purriticular, its pronounced kind of like POR-TICULAR.

The OR sounds like Hour , ow . But its sort of in

between

numericalmethodsguy Thanks. Next time I will be "particular" about saying

4 months ago

particular.

hotbaonguyen92

6 months ago

Thank you this lesson is easier then what my Ap

calcus book says

bsanghera05

6 months ago

after so many tries of trying to learn this soo many ppl trying to teach me this video has finally made it clearly explained follow the steps and you got your answer

thank you sooo much =D

saab93secv

6 months ago

Thank you so much! I knew that Euler's Method was

simple, but it is rare to see it explained well.

nitaiwhelan 7 months ago thats life made simple.....

keep uploading lectures their brilliant...very clear and

understandable.

AbhishekPanigrahi.

7 months ago

yo!!.... wonderful easy to understand presentations....

life seems a whole lot simpler with these lectures!!....if only my professor's lectures were half as interesting.....

anyways thanx a lot ...keep uploading more videos

...luking forward 2 it

lovelandia1

7 months ago

You helped me a lot , now I can understand Euler's method. BUt there is something I don't understand

here, what if you are given something like this: x^2-1 where x(0)=1 and you are asked to to solve it

numerically on interval , let's say [0,0.6] . How can I use

Eulers' method to solve this numerically?

lovelandia1

7 months ago

All your examples none of them which asked to solve on specific intervals. So, I was asking myself if like

where you f(yi,xi) that in this case can then be

 $f(0,0.6)=x^2+1$

I just don't understand well

anyone to help please?

dekechemist

Comment removed

7 months ago

supadawg1989

8 months ago

thank you for this! This really helped me understand

this!

Mainichifuafua.

Thank you Dr. Kaw. This was of great help.

8 months ago 9 👍

No one is more cherished in this world than someone

who lightens the burden of another. Thank you.

daringredevil4life

8 months ago

Very helpful presentation. Kindly carry on the good

work!!!

akensim

9 months ago 2 👍

Dr. Kaw, thank you very much for producing these mini lectures. They are extremely useful and of immense

value to all of us.

ZwolfZki.

Nice clear presentation...

11 months ago 2 🕼

11 months ago

numericalmethodsguy. What do un mean that the method is not the same. Euler's method cannot be different from one person to another. Are you using the modified Euler's method?

wizardroolz hey kaw!..ur method and mine isn't the same bt could

11 months ago gt the same ans...nice job!

numericalmethodsguy. What made you think that my name is Dr. Kumar. If this

11 months ago is a joke, Hike it; if not, my name is Dr. Kaw.

cokecamilo It was a joke lol...

11 months ago

but seriously speaking: this was very helpful.

cokecamilo Thanks for the help Dr. Kumar!

11 months ago

999madcows same, I have my AP Calc BC test today. Saved me!

1 year ago

yellowspottedtoad You rock! You've just saved me from totally failing

1 year ago 4 🕼

Bobward thanks a bunch!

1 year ago

blkscreen15 thanks for the help

1 year ago

servos1988 04:03: 1 year ago 5+(1)*2=8

WEG.

WTF?!:)

numericalmethodsguy It should be 5+(1)*3=8. Thanks for pointing it out. The 2

1 year ago is a typo but the answer is correct as h=3. But use of

WTF is not necessary to convey your sentiment. I will

add an annotation to the video.

servos1988 No problem. English isn't my motherlanguage so l

1 year ago appologize for any inappropiate language.

Yea the answer is correct anyways.

numericalmethodsguy. The formula would not change. You would use h=-1.5

for two steps to get to y(-3.0). The only restriction is that

the ODE needs to be valid for x>=-3.

CHARLIEGTG how would you do instead of y(3).. you want y(-3)????

1 year ago how would the formula be???

1 year ago

Runge Kutta 4th Order Method: Example Part 1 of 2

Total Video Views: 9,953

June 9, 2010

All Comments (17)

All Collinellis (17)	
kralle333 1 month ago	Going to a test today
homedogdigity 2 months ago	k3=3181*
louisIryan 2 months ago	Great links. I've been covering numerical methods this semester and this has been my number one source of information. If you still have the labs, Adam Bashforth's method could be simplified! Great job USF
presidentevil 2 months ago	can't you use the linear ODE equation for this? Can you solve any nonlinear ODE with this?
numericalmethodsguy 2 months ago	You can solve any linear or nonlinear ODE of the form dy/dx=f(x,y) with Runge-Kutta methods.
footbagverde 3 months ago	thanks so much! very good video you explain much better than my professor!!
bardiche1989 4 months ago	You Sir are PRO!
LogInForPaper 4 months ago	So my lecturer goes to us today, "So you should all be aware of the Ronge-Kutta and Euler methods". The whole class (first years) just looked at eachother with baffled faces. Thank you for uploading this, you have saved my Mathematical Physics GPA!!

numericalmethodsguy. Please tell all your classmates about the website.

4 months ago

LogInForPaper @numericalmethodsguy

4 months ago Yeah I will, already posted this on facebook.

expert425 really helpful video, thanks

5 months ago

7i7Abil you are very helpful and i appreciate the time you put

6 months ago into this

pikachu7 you are my hero

7 months ago

lovepandas411 OMG!!! idk what this is but Runge is my last name!!!

8 months ago and he said in right!!

adhemar4444 Really helpful thanks so much

10 months ago

numericalmethodsguy. The correction for k3 has been posted

1 year ago

KooLRajK Comment removed

1 year ago

Newton-Raphson Method: Example

Total Views: 9,286

June 9, 2010

All Comments (23)

AshimHybrid07

1 month ago

sir, can you help me in this question..... i m understand how to solve it.....i solved other questions of N-R method..... but now facing prob in this question. x^3-x-1=0 -four decimal places

1 month ago

numericalmethodsguy @AshimHybrid07 Well take the derivative of x^3-x-1. that is 3x^2-1. Now use an initial guess like x0=2 or so in the setup and you are on the way. When the fourth decimal place does not change in the iterations, you have achieved your result. The answer is 1,3247. The egn has two complex roots too, but those cannot be found by NR method. For that you need to use methods such as Muller's method.

fizXgirl314

1 month ago

I've also haerd that you can use the newton raphson. method combined with the shooting method in order to make your next initial condition guess. Do you have any good resources on how this can be done? I'm attempting it on an assignment. Your lectures are great!

tahirsaleem11

2 months ago

is there neceasary to take seond derivitive in newton rapson mehhod and also assume firtst function to another function let suppose f(x) to q(x) and then take first and second dervitive of this function kindly help me

2 months ago

numericalmethodsguy. One only takes first derivative in Newton-Raphson. method. There are modifications proposed to the Newton-Raphson method when the equation has repeated roots, which involve taking derivative of f(x)/(f'(x)).

sahmed28 You are an awesome professor!

3 months ago whats your background? are u indian or pakistani

thanks once more:)

numericalmethodsguy @sahmed28 Such questions need not be asked. I am

3 months ago a US citizen. Do not let my color, accent or nationality

distract you from learning!

AkiThePirate I would like to think he was asking only out of curiosity.

2 months ago
And I'll agree with him, very informative.

Thanks.

jameschoyd @numericalmethodsguy AMERICA! YEAH YEAH!

1 month ago

henriettagib can anyone tell me wer he got the x0=3.0???

5 months ago

5 months ago

numericalmethodsguy. That is an initial guess to get the procedure started. To

make an estimate of the initial guess, you may look at the physics of the problem. For that, read by going to numericalmethods(dot)eng(dot)usf(dot)edu, click on Newton Raphson Method and see the textbook chapter

example.

SnakeEater1912 Thank you for making such a good video. You are

7 months ago much better than my lecturer, I wish I can download

your video so that I can watch it over and over again without log in to youtube. Do you have exercises that I

can try?

numericalmethodsguy @SnakeEater1912 The exercises are given at the

1 month ago numerical methods website for which the URL is at the

numericalmethodsguy channel. Go to keyword, and

then to multiple-choice.

loernit Excellent video. Have you done any videos about

1 year ago function interation?

sneakybadger Thankyou for making this video

1 year ago 2 🕼 It has helped me!

mikeymusician i dont get 0.009% for the last iteration.

1 year ago i get 0.037%. Maybe i'm calculating wrongly

numericalmethodsguy You are right. The number 0.009% is obtained using

1 year ago more significant digits in the calculations of the roots.

Iblake58 Comment removed

1 year ago

konmak great instruction, thank you!!

1 year ago

coswominn wow, ur an awesome teacher.

1 year ago 2 👍

elgourmetdotcom I/ve got one question only! Why did you start with 3.0? I

1 year ago mean, why did you choose that value in particular?

1 year ago

numericalmethodsguy. I started with 3.0 as an initial guess just to solve the problem. You could start with any guess you want. The root may diverge or converge. In many physical problems, the physics of the problem may help you with a good initial guess.

1 year ago

numericalmethodsguy Example: To find to what depth a ball is floating in water results in a cubic equation. In this case we know that the depth has to be between zero and the value of the diameter of the ball. So choosing half the diameter is a good guess. Do a Google search on STEM numerical methods. Go to the first site that shows up. Click on Keyword. Go to Newton Raphson Method. Click on Textbook notes to see the example.

happysoursop

thanks for uploading this video... u rescue my maths

1 year ago

dias165

cheers

1 year ago

1 year ago

mwsc

The Best Newton-Raphson method example that I

have ever seen. Thank you very much.

LU Decomposition Method: Decomposing a Matrix Example: Part 1 of 2

Total Video Views: 9,235

June 9, 2010

ΑII	Comments	(4)
		2.77

1 year ago

DocJ32290
3 months ago

jiminikiz reall well put together lecture on LUD
8 months ago

zildjian Thank you for that really nice vid! ^^
11 months ago

Greetings from spain

8soso8 i have final exam tomorrow thnx alot that help me alott

Euler's Method: Derivation

Total Video Views: 7,048

June 9, 2010

All Comments (9)

yadun1 1 month ago	Do you have a video for the backward euler integration scheme?
betul2bosan 1 month ago	just love the ending
r monur ago	END
BluCosmos 3 months ago	yes great explanation
ctw005 5 months ago 4 👍	amazing teacher
yellowspottedtoad 1 year ago 2 🕼	Wow! He is awesome! Very clear when explaining, and his writing is nice :D
vip1789 1 year ago	Awesome! - Better than my university lecturer!
blkscreen15 1 year ago 5 d ≢	thanks for explaining f(x,y) and sometime when you are confused about the smallest thing, its hard to understand other stuff, so this is great and very helpful video.
Ren520 1 year ago 2 d ≢	thankyou!!! that makes things alot clearer!! =]
persianqu33n 1 year ago 2 d ≢	that was cool!thanks

Bisection Method: Example

Total Video Views: 6,878

June 9, 2010

All Comments (13)

tronulu

thanks

2 hours ago

ManuelCollinsBarud

1 week ago

Excellent video! Thanks from Mexico!

kienhsin

nice! thanks for this vid

2 weeks ago

divinenuker

THANKS! I don't understand why the book can't make it this CLEAR! Why do they have to make it SO DAM 1 month ago

Complicated even when your just being introduced to

the concept! Jeez

I'm glad I have this channel as a phenomenal study

tool!

Thanks Professor.

If you have time / resources, please do a section on

Finite Element Method!

rizwayne 2 months ago

thank you so much!!! u were jsut phenomenal...grt

lecture!!

darklordamit

thanks a lot :) a very good and understandable tutorial

3 months ago

0

Animeplayer

7 months ago 7 🕼

Thank You! This is even more clearer and

understandable than the book and the professor I

have.

2112dim

7 months ago 3 👍

Very good, just started today studying such numerical

methods.

sultans90

very good!

7 months ago

thanks

kabbie101

You are a very good teacher, very thorough

7 months ago

3SmartyPants

This has been flagged as spam show

8 months ago

3SmartyPants You are an awesome teacher!! I totally now understand 8 months ago the Bisection Method (with a few minor questions for

clarification).

lapitburaytitibuday

9 months ago

dude! do you have an example on fixed iteration method? I really needed it! I'll put five stars if you

explained it well

Floating Point Representation: Example

Total Video Views: 6,567

June 9, 2010

All Comments (18)

RajeevID 4 weeks ago	Thank you
gatnu3010 1 month ago	Thank you for this video and the base conversion, it was really helpful.
ibo777tube 3 months ago	Thank you very much. It was very helpfull to me but I thing there is an mistake in the last Representation of the floting point
numericalmethodsguy 3 months ago	/ Can you point the mistake to me?
RuyABC 3 months ago	Good materia. Its essential in computer science. The Brazil express gratitude.
videos12344444444 4 months ago	confuse oO. Im really dont understand the base of conversion on float point oO
Terry1212 5 months ago	Thanks for the video. Btw, the dog ate my homework. :D
mosgba 7 months ago	i got the 13 but not the 0.9 plz help me

blitz0623 0.9:

6 months ago 0.9 x 2 = 1.8. Use the 1. (1)

0.8 x 2 = 1.6. Use the 1. (11) 0.6 x 2 = 1.2. Use the 1. (111) 0.2 x 2 = 0.4. Use the 0. (1110) 0.4 x 2 = 0.8. Use the 0. (11100)

 $0.8 \times 2 = \text{back to 2nd operation}$. So the binary

representation of 0.9 is:

11100 1100 1100 1100 etc. We just need the important

bits, 11100.

mosgba the actual reason am watching he put it to home work.

7 months ago oh no!

mosgba thanx for helping i got it

6 months ago

robertgeorge24 Comment removed

7 months ago

The Desire to learn In binary representation 9 is 1001. Isn't it?

8 months ago

numericalmethodsguy. It is the respresentation of 0.9. See this video

8 months ago youtube(dot)com/watch?v=96MJVzVKoIE

LoboLoko007 I have just been studying binary and hexadecimals and

7 months ago I can surly say that... yes

1001(binary) is the equibalent of 9 (in decimals)

Akillarian Thanks for the video, It's very helpful.

9 months ago

Valefarous: Thank you for this video! I've been struggling through a 11 months ago

very dense chapter on fp representation that used a lot of heavy language from abstract algebra; this made it

much clearer to me:)

naco1020 thank for the correction...:-)

1 year ago

amightyo the mantissa is 101.

Thanks for the info...very useful. 1 year ago

numericalmethodsguy. Thank you for the correction. It has been annotated on

the video. I hope to replace this part of the video later by 1 year ago

re-taping it.

LU Decomposition Method: Decomposing a Matrix Example: Part 2 of 2

Total Video Views: 5,773

June 9, 2010

ΑII	Comments	(19))
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3 months ago

shiringham 3 weeks ago	You ROCK
eajustin06 1 month ago	word my finals in 3 hours hah ima gonna passsssssssssssssssssss woooooooorddddddd
fusion2x 1 month ago	awesome, clearest lecture about this ever!
iwashungry 1 month ago	Very helpful!
SoumyaGangula 1 month ago	jus superb thanks for uploading it
Crayfish1010 2 months ago	outstanding!!!
phowaiwin 2 months ago	Awesome!. I very much appreciate him. This is crystal clear.
rtalbert235 3 months ago	Thanks for this very clear exposition. I'll be sharing this with my own linear algebra students.
numericalmethodsguy 3 months ago	@rtalbert235 Please email me the university you are taking the course at!
divinenuker	AWESOME!

Peeanorun awesome! he did such an awesome job explaining LU

3 months ago Decomp. Thanks!

barryon Brilliant! I'm panicing and i have to say that i have this

4 months ago nailed now because of this vid!!

Brilliant teacher.

fiwel Thank you man. Very good video. Maybe I'll pass this

7 months ago exam after all?:)

yunjizzle very clear

7 months ago

jiminikiz really well presented, awesome instructional video

8 months ago

zsiuramCie Great teacher. Thanks for this vid.

9 months ago

Tordre Thank you i have my exam in 2 hours this is a great

10 months ago Video.

ramjam19 hands down, you are the best!!! Thank you very much.

11 months ago

pangolish great! helped me a lot

1 year ago

Direct Method of Interpolation: Linear Interpolation

Total Video Views: 5,661

June 9, 2010

, an equilibries (e)	All	Comments	(9)
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mgilicuty007 1 month ago

I am learning more in these videos than in my actual

numerical methods class at UCSD.

chippy89

thank you

3 months ago

SammerX 3 months ago

Thank you! Big help for an XRD lab that I am working

GabiHeinz

4 months ago

Thx a lot:))

theonlyrealshark

5 months ago

thanks! i can finally interpolate tables

ericchengcheng

7 months ago

Is this Thai made?

7 months ago

numericalmethodsguy Made in the USA - a rarity nowadays! University of South Florida.

Isonux

10 months ago 2 👍

Excellent instruction, but I'm sure the drop outs might have stuck around if you helped them work out this

particular set of matrices? Nah! XD

This takes me back to my college days, ain't like riding a bike though.. gotta keep working at it to stay a master

for sure.

alimn2222

Thank you... this is very helpful

1 year ago 4 👍

Secant Method Example

Total Video Views: 5,053

June 9, 2010

All Comments (17)

maroon5rule 1 month ago	Thanks for uploading this, I fully understand it now, cheers!
fizXgirl314 1 month ago	OH YEAH!! this helped me to find the next guess for use in the shooting method LOVED IT!
Sn1perBH 2 months ago	thx
umutert 3 months ago	cool stuff!
unknownkingdom 4 months ago	These are very useful videos. Thank you for posting.
MatHrtxC 6 months ago	show
kabbie101 7 months ago	Thank you, I understand it now! and i thot it was hard
himildesai 8 months ago	thanks dudeyou saved my lifeawesome videoI now understand Secant method so perfectly.
lapitburaytitibuday 9 months ago	This has been flagged as spam show
lapitburaytitibuday 9 months ago	This has been flagged as spam show
lapitburaytitibuday	This has been flagged as spam show

lapitburaytitibuday.

9 months ago

This has been flagged as spam show

Tapitburaytitibuday

9 months ago

This has been flagged as spam show

lapitburaytitibuday.

9 months ago

This has been flagged as spam show

lapitburaytitibuday.

9 months ago

This has been flagged as spam show

lapitburaytitibuday.

9 months ago

Fixed point method pls......

numericalmethodsguy. I do not have access to the studio this semester.

9 months ago

lapitburaytitibuday.

9 months ago

dude! do yo have an example on fixed point iteration method? I'm looking around the internet and nothing

gives me the exact meaning of it...