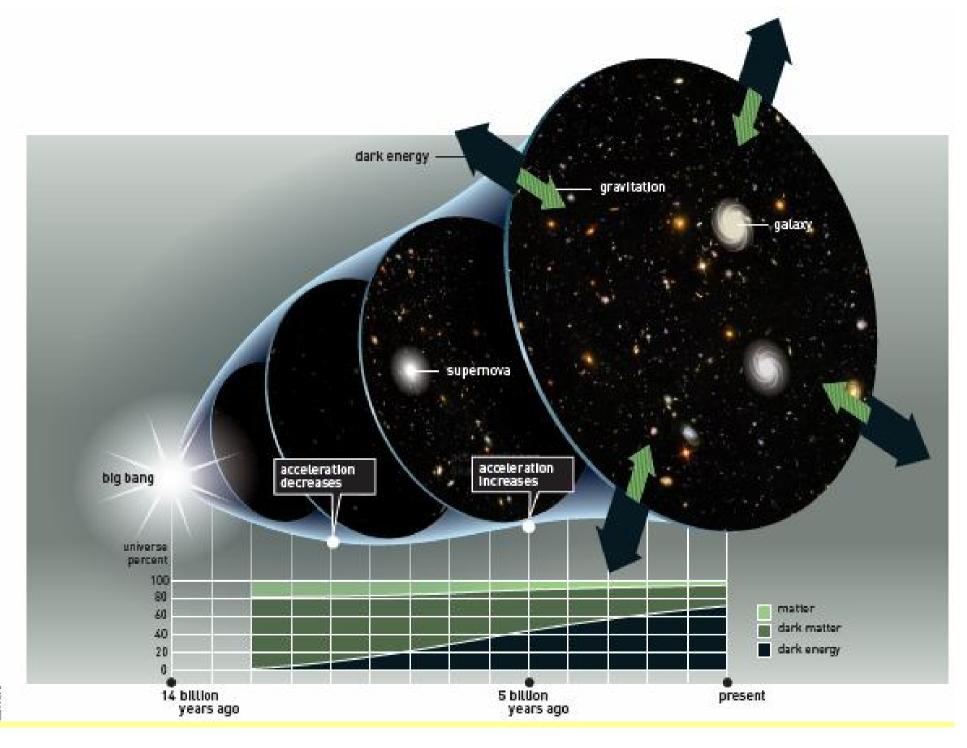
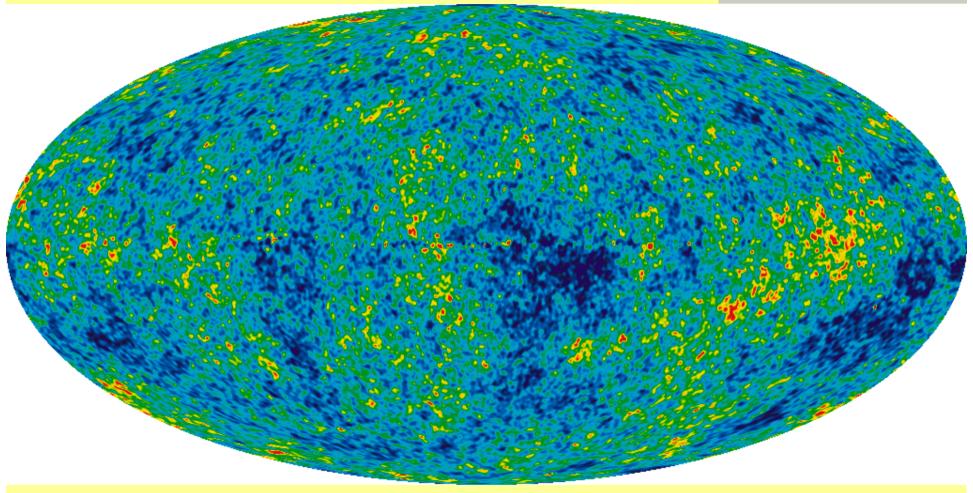
Тернопільський національний технічний університет імені Івана Пулюя Семінар «Практичні аспекти використання елементів дистанційного навчання в рамках впровадження кредитно-модульної системи» 4 квітня 2013 року

Масові дистанційні online-курси: способи ефективного використання

Ю.Л.Скоренький кафедра фізики ТНТУ skorenkyy@tstu.edu.ua







Карта анізотропії мікрохвильового реліктового випромінювання Wilkinson Microwave Anisotropy Probe, 2001-2012 http://map.gsfc.nasa.gov/

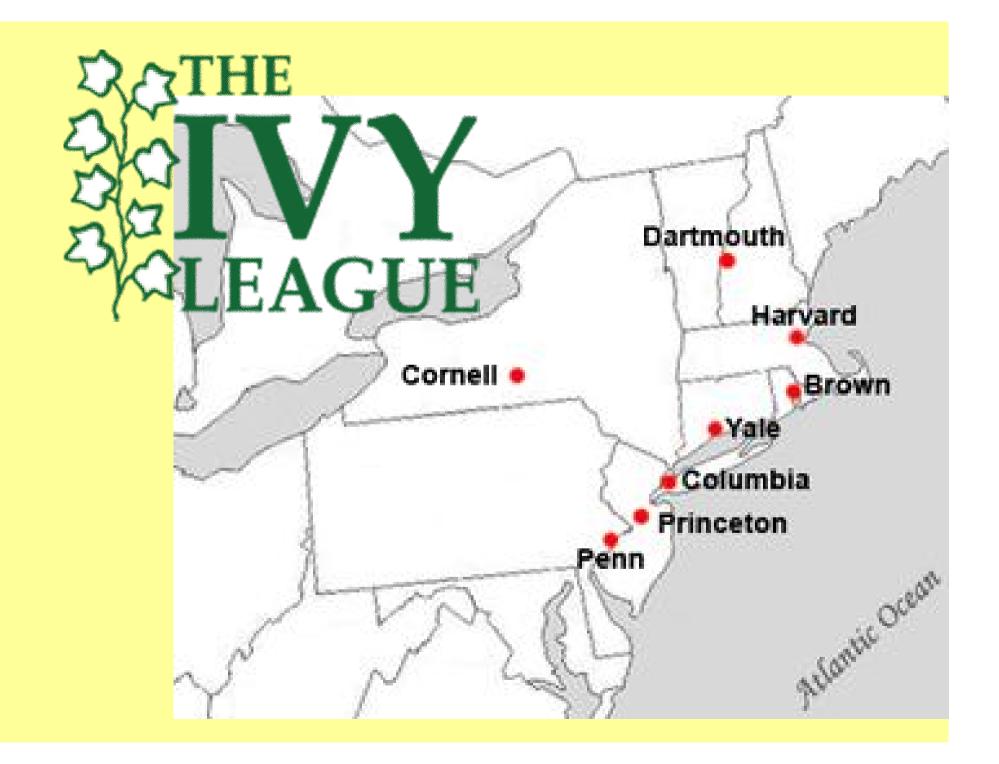
The Shawshank Redemption, 1994



PEAR CAN HOLD YOU PRISONER.
HOPE CAN SET YOU FREE.



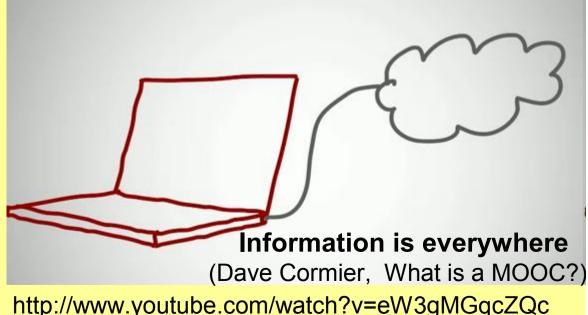
"Mr. Dekins, do you want your sons to go to Harvard... or Yale?"



Massive Occambridge Online Open Course



http://www.shanghairanking.com/



one way of learn in,9

http://www.youtube.com/watch?v=eW3gMGqcZQc

Кому це потрібно?

→ c www.bootstup.org

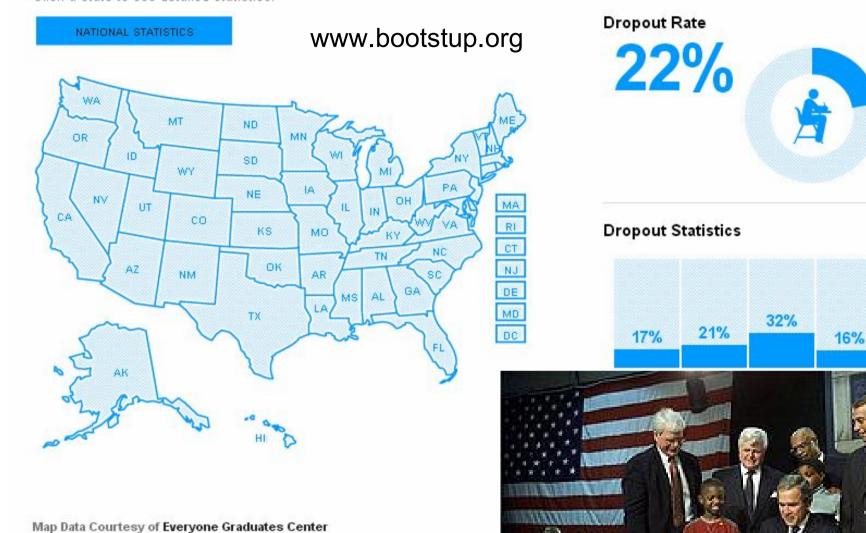


A simple message of encouragement can help change that.

► Watch LeBron's message to students



Click a state to see detailed statistics.



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No Child Left Behind

No Child Left Behind Act, 2001

http://en.wikipedia.org/wiki/No_Child_Left_Behind_Act

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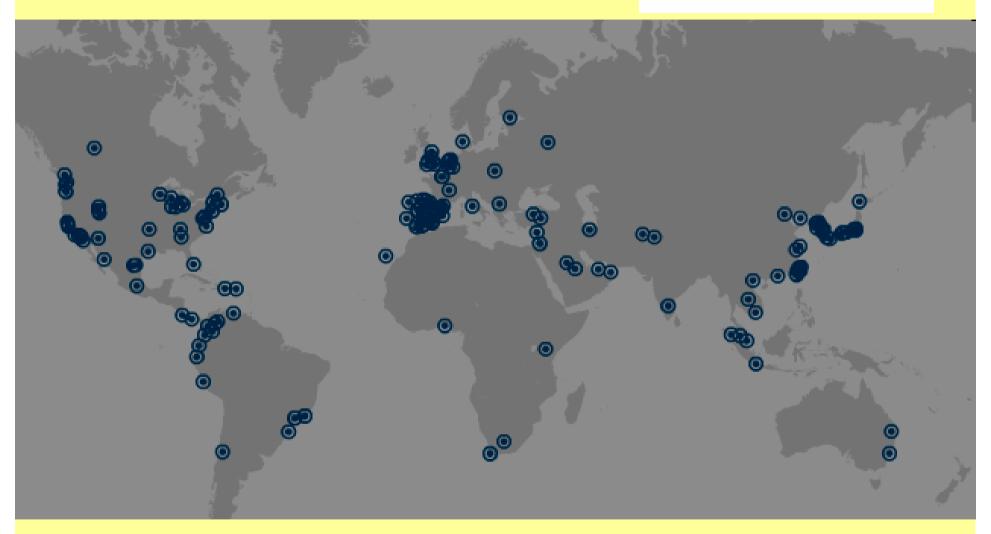
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Data Mining

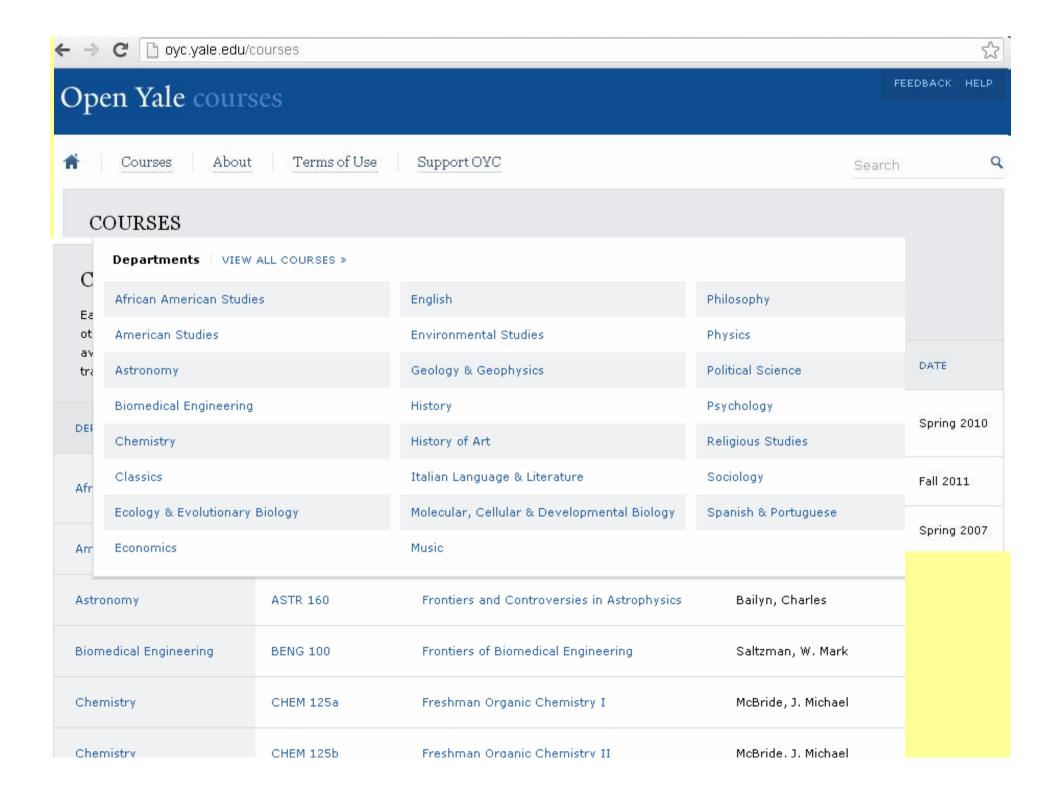
Graphics and Visualization



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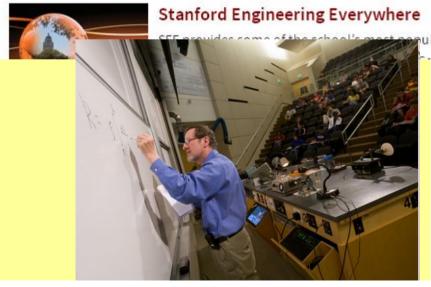
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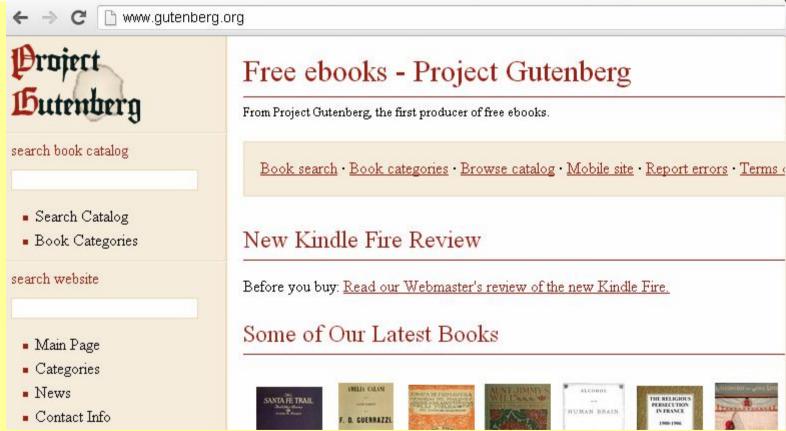
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Звичайно ж, можна і самостійно





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Що в цьому доброго?

Безкоштовний відкритий доступ до знань звідки завгодно

Можливість використовувати прогресивні навчальні моделі та засоби

Можливість долучитися до розробки навчального контенту (wiki)

Можливість співпрацювати/спілкуватися з представниками іншої культури/галузі знань і формувати професійну мережу

Розвиток цифрової економіки



Salman Khan:

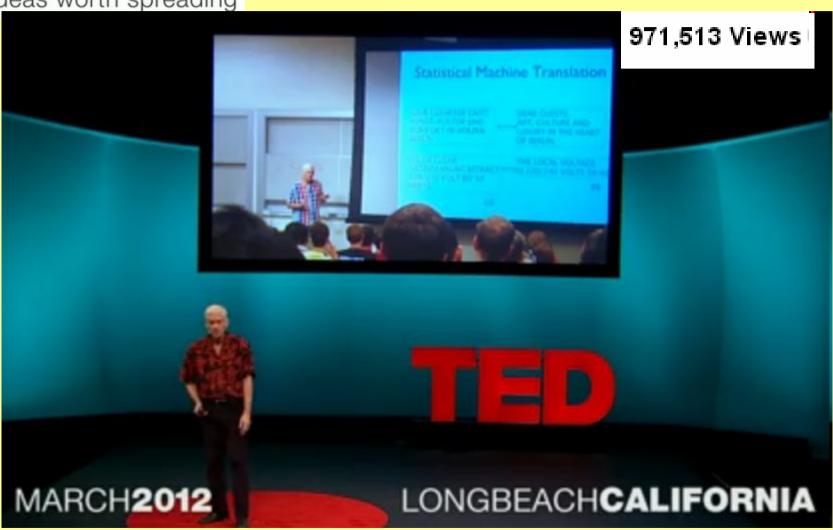
Let's use video to reinvent education Березень 2011 р.



http://www.ted.com/talks/salman_khan_let_s_use_video_to_reinvent_education.html



Peter Norvig: The 100,000-student classroom Березень 2012 р.



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Daphne Koller:

What we're learning from online education Червень 2012 р.

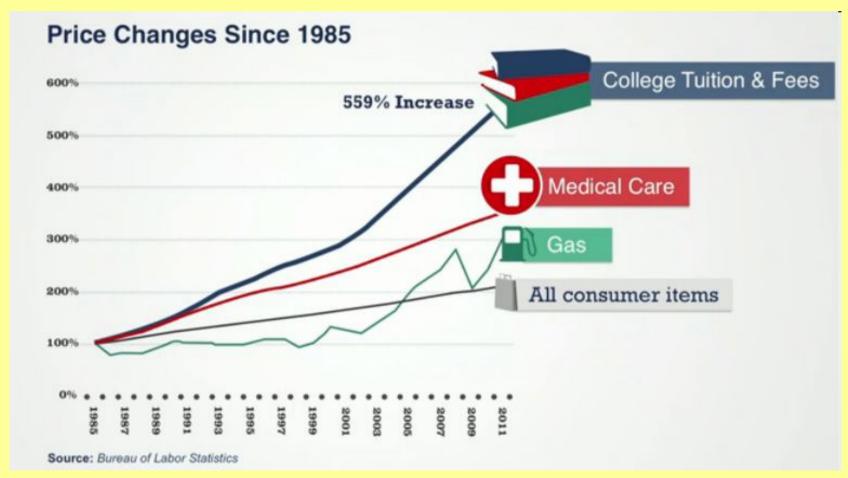


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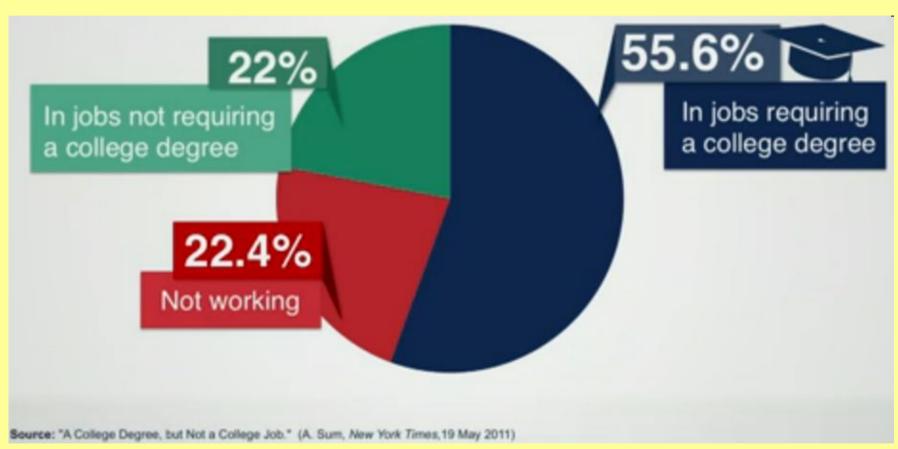


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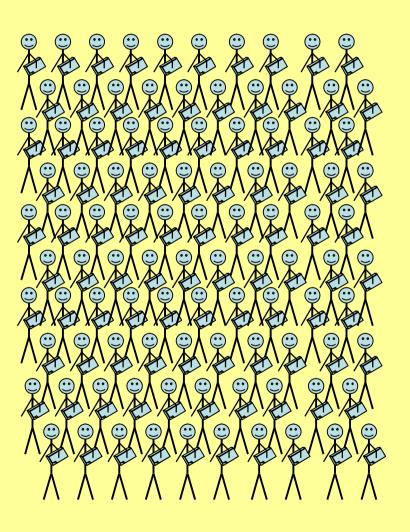


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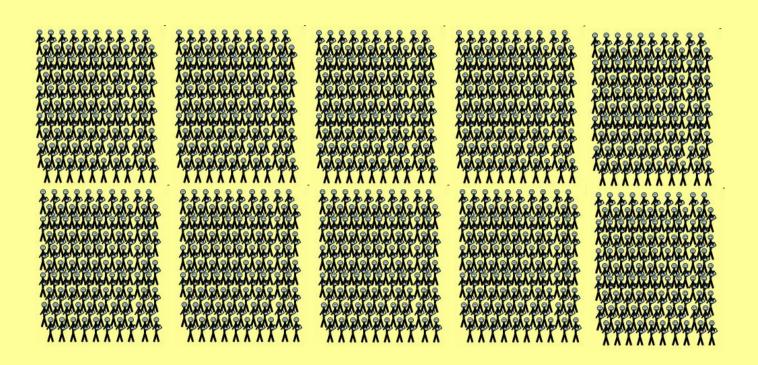
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class

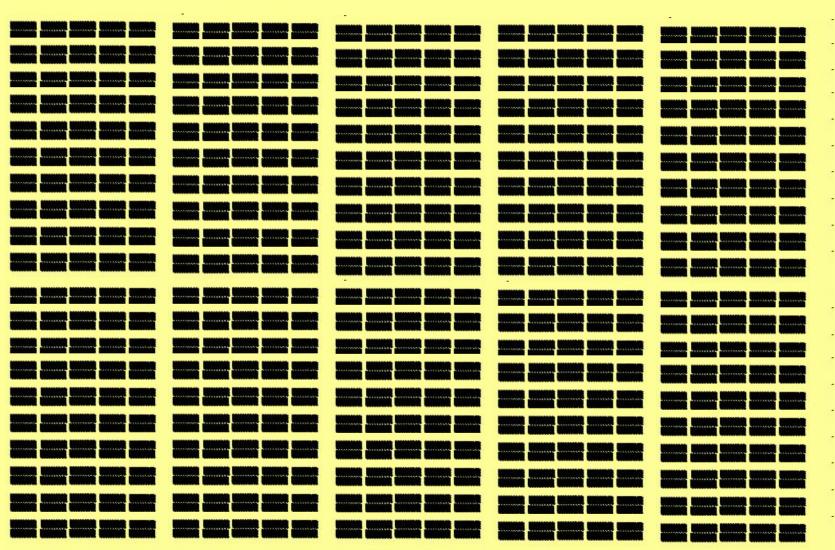


open online course



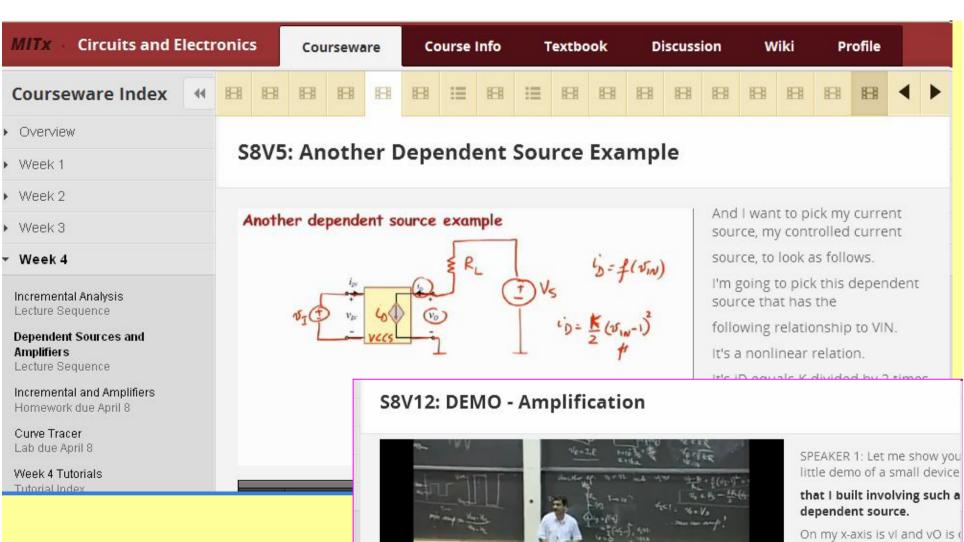
Massive open online course





MITX Circuits and Electronics

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Of these, 69,221 looked at the first problem set, and 26,349 earned at least one point on it.
9,318 people got a passing score on the midterm.
5,800 people got a passing score on the final exam.
Finally, after completing 14 weeks of study,
7,157 people have earned the first certificate awarded by MITx.





On my x-axis is vI and vO is y-axis.

And focus on this little point here.

OK?

CC

Right now my vI is zero, and therefore that's my output.

to watch the output and see it behaves, pretty much

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Pang Wei

Frank









Chris





















Course Operations, and Business Development.

16 of us went to Stanford University.

We started with 2 founders and now we're a team

of 20+ people doing Engineering, Design,

We speak a variety of languages, like Chinese, Hebrew, Spanish, and of course, Quechua.

2 of us went to the same high school in Texas - but didn't know it until now.

The New Hork Times

Education

Universities Abroad Join Partnerships on the Web

By TAMAR LEWIN

Published: February 20, 2013

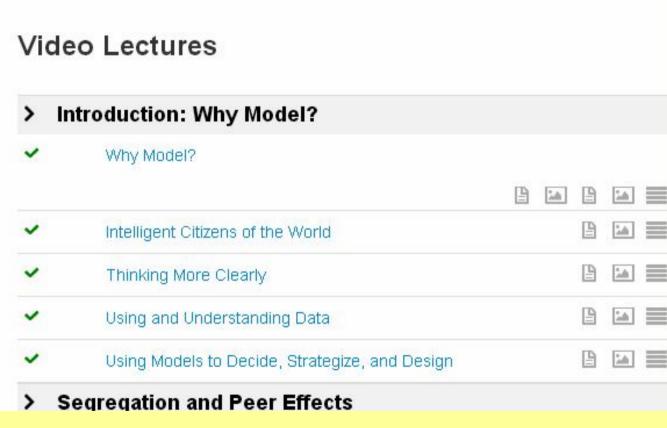
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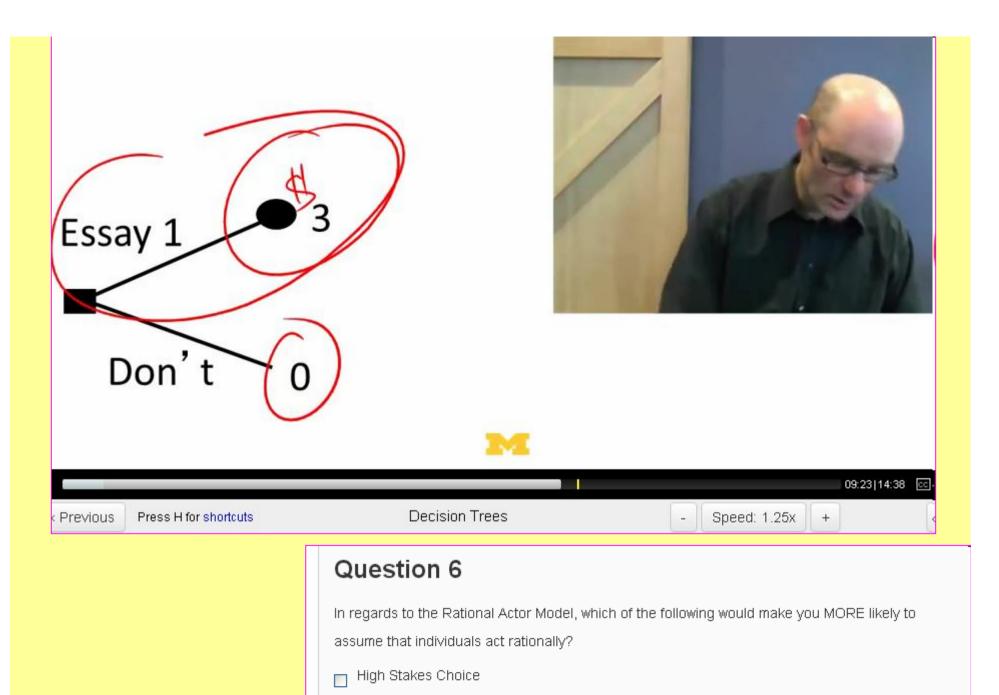


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Emotional Decision

Repeated Choice



Principles of Economics for Scientists

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Jan 7th 2013 (10 weeks long)

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California Institute of Technology

Calendar & deadlines

Week	Item	Out	Due
w1	Unit 1. Principles of optimizing behavior Lectures & Practice Problems	Jan 7	
w1	Problem Set 1	Jan 7	Jan 14
w2	Unit 2. Consumer Theory Lectures & Practice Problems	Jan 14	
w2	Problem Set 2	Jan 14	Jan 21
w3	Unit 3. Producer Theory Lectures & Practice Problems	Jan 21	
w3	Problem Set 3	Jan 21	Feb 4
w4	Unit 4. Competitive markets. Lectures & Practice Problems	Jan 28	
w4	Problem Set 4	Jan 28	Feb 11
w5	Unit 5. Government intervention in competitive markets: Efficiency. Lectures & Practice Problems	Feb 4	
w5	Problem Set 5	Feb 4	Feb 18

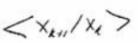
Можливість вільно скачувати відеолекції

👼 4 - 4 - Part IV Derivation (contd) (1558) (difficult material optional).mp4 - Media Player Classic ... 📃 🔲



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Calculating the matrix elements $\langle x_{\mu \mu}/x_{\nu} \rangle$



• Reminder (this issue is often a source of confusion): $|\Psi\rangle$ vs. $\Psi(x)=<\times/\Psi>$

$$-\langle x|p\rangle = \frac{1}{\sqrt{2\pi\hbar}}e^{\frac{i}{\hbar}px}$$

$$-\langle x|x'\rangle = \delta(x-x')$$

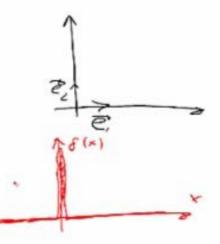
- · Dirac delta-function
 - Orthonormality condition for "usual" basis vectors, {e_i}:

$$\delta_{ij} = 1 \qquad \vec{e}_i \cdot \vec{e}_j = \delta_{ij} = \begin{cases} 0, & \text{if } i \neq j \\ 1, & \text{if } i = j, \end{cases}$$

For a "continuum" basis,
$$\{|x\rangle\}$$
:
$$\int_{-\infty}^{\infty} \int_{-\infty}^{\infty} \langle x - x' \rangle = \int_{-\infty}^{\infty} \langle x | x' \rangle = \delta(x - x') = \begin{cases} 0, & \text{if } x \neq x' \\ \infty, & \text{if } x = \overline{x'}, \end{cases}$$



$$\delta(x) = \int_{-\infty}^{+\infty} \frac{dk}{2\pi} e^{ikx}$$



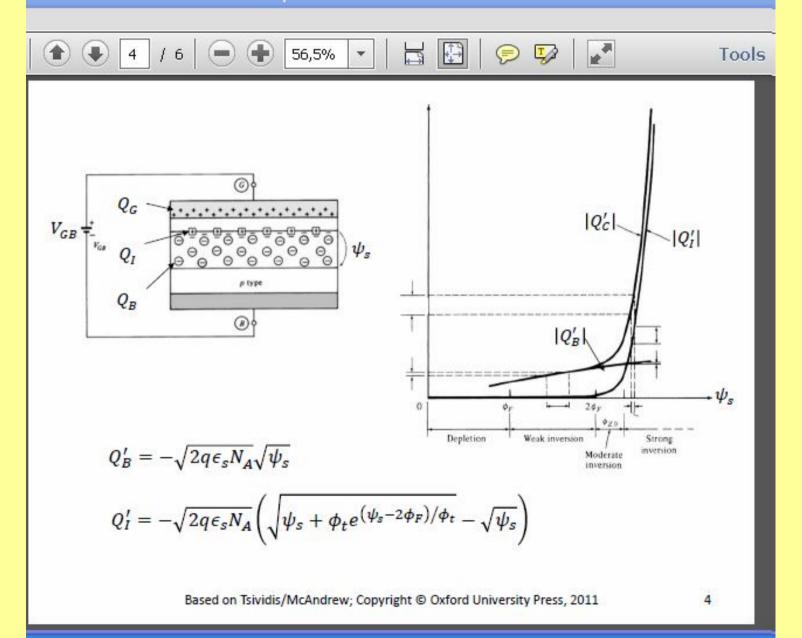




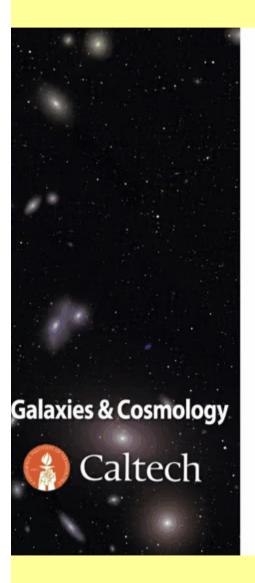


Можливість вільно скачувати слайди лекцій

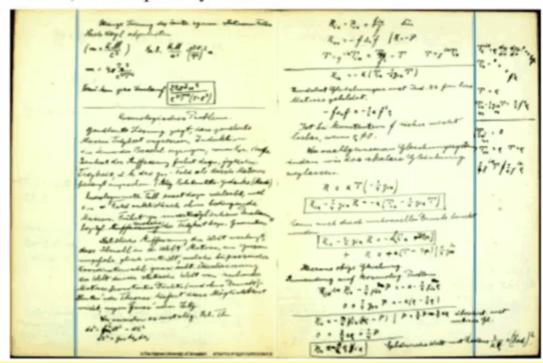
erminal MOS Structure - Inversion.pdf - Adobe Reader



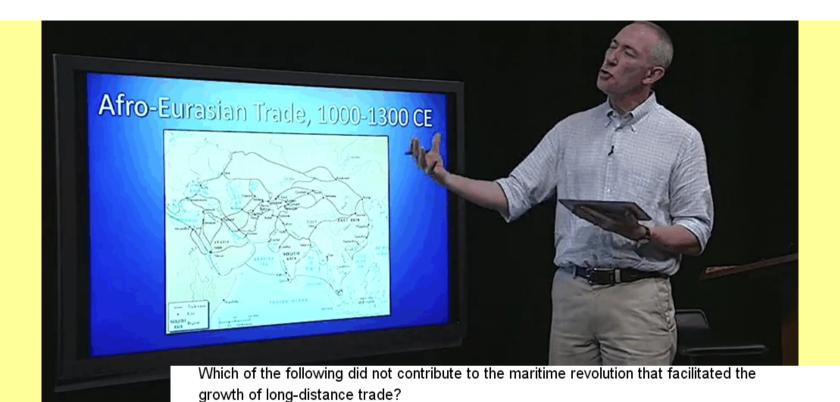
Унікальні документи, експерименти та дані



Einstein's lecture notes for a course he taught on GR in 1919. The final topic of the course was cosmology, which he had begun to investigate only two years earlier. Here he describes his methods in constructing the first mathematical model of cosmology in GR. This universe contains non-relativistic matter, stars and nebulae in agreement with the contemporary observations, but is spatially finite.



(From R. Caldwell)



Тести в лекції

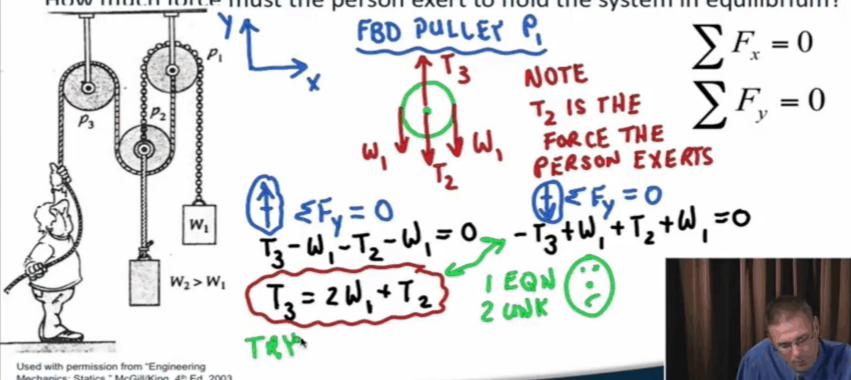
- Improved navigational technologies.
- Refinements in shipbuilding.
- Lack of protection from political authorities.
- Shift in business and accounting practices like credit.

Continue





How much force must the person exert to hold the system in equilibrium?

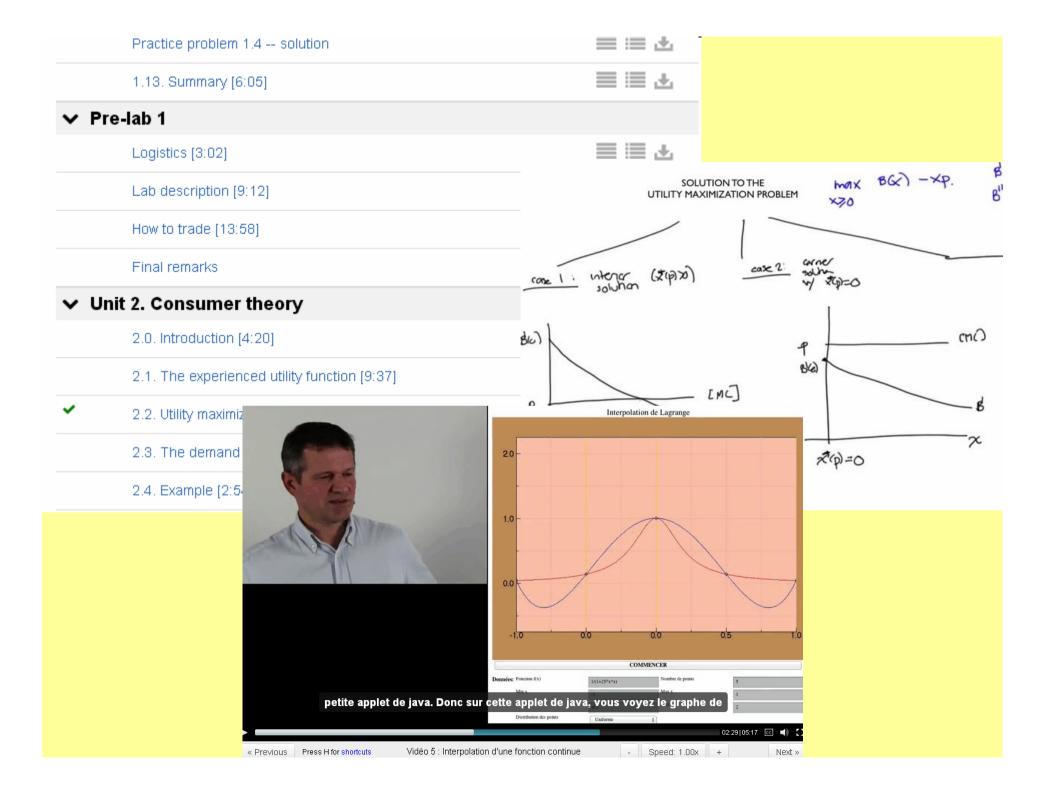


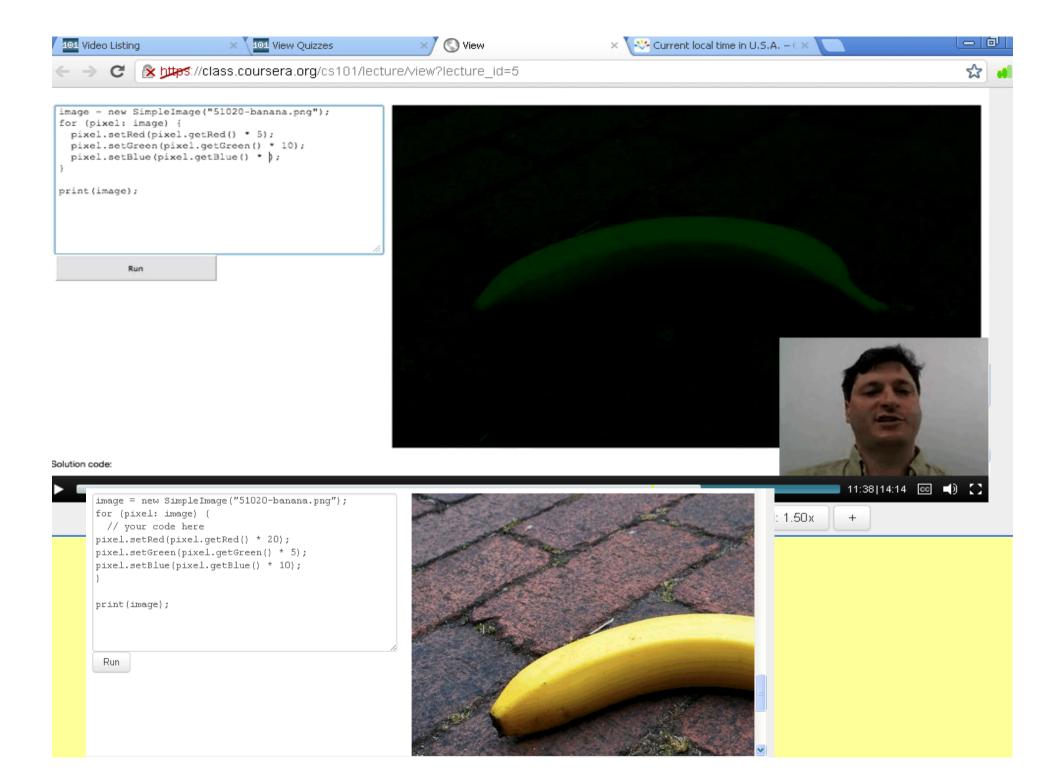
Mechanics: Statics," McGill/King, 4th Ed, 2003

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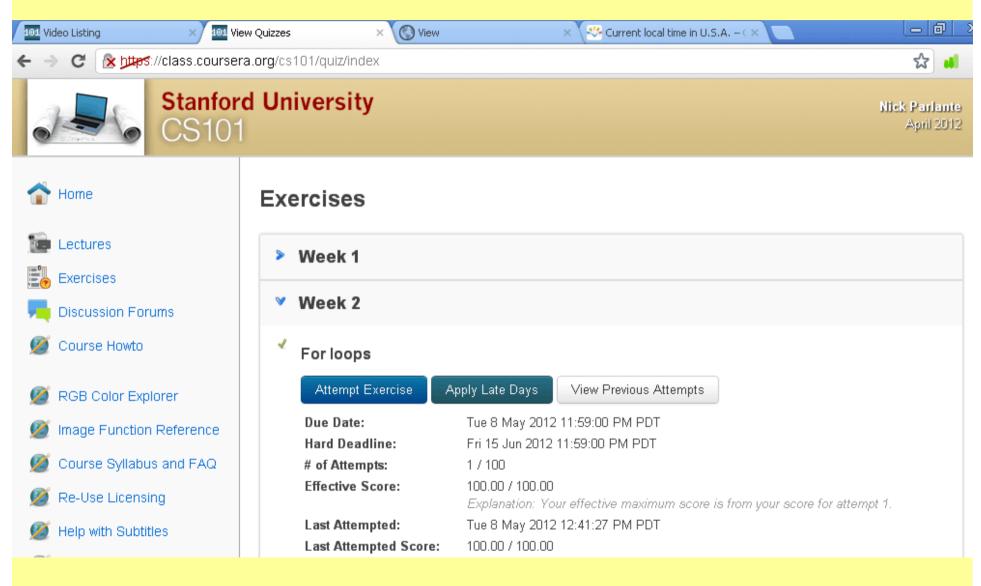








Уніфікована структура (як і в будь-якій LMS)



Форум ніколи не спить

Forums / General Discussion

Question about the Polysilicon Gate

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🔷 gate× + Add Tag

Nikhil - 8 days ago 🗞

From what I know, in a N-MOS structure, we have a p-type body and n-type polysilicon gate (PSG). My question is, why do I have to use n-type polysilicon gate only? Can I not use P-type PSG? Is this because electrons have higher mobility than holes and hence offer lesser resistance and consequently lower RC delay??

^ 1 V

Mark R. Gehring · 4 days ago %

Look at the equation for VTO. Using P gate, with positive work function, will dramatically shift the VT to unusable values. Thus, P gates are used for p channel (nwell) MOSFETs. This is also why it took a long time to develop metal gates for low voltage MOS devices - you have to use the right metal alloy to get the VT reasonable.

Question 1

Аналітичні тести

Simplify the expression

$$\left(-6x^2 + 9x \right) - \left(2x + 5 - 3x^2 \right) + \left(7x^2 - 6x + 2 \right)$$
 to the form $Ax^2 + Bx + C$.

Enter your answer as a list of the values A B C separated by

spaces.

412

Question 1

Simplify $(2\sqrt{7}+3\sqrt{2})(\sqrt{7}-5\sqrt{2})$. For submitting an answer with symbols, please follow these instructions: "/" means division, "*" means multiplication, and "^" means exponentiation. For adding a square root symbol, use sqrt (NUMBER). Please click the "preview" button for each question prior to submitting the answer so you can check that you've entered the right math expression.

Preview

Your submission is equivalent to: $-7\sqrt{14}-16$

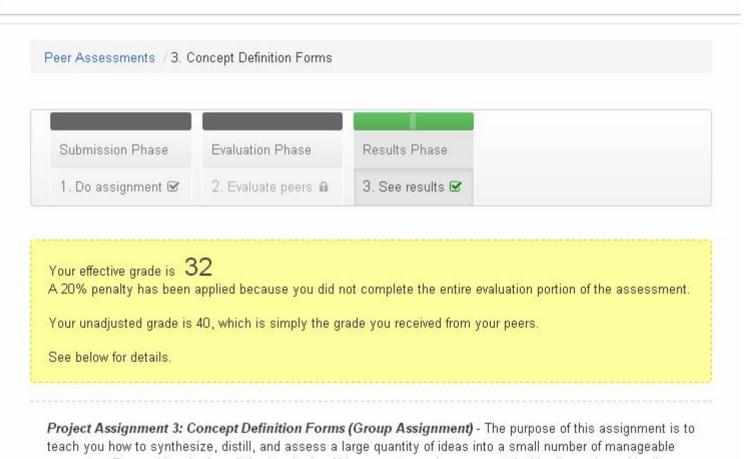
Взаємне оцінювання письмових робіт



Leading Strategic Innovation in Organizations

by David A. Owens









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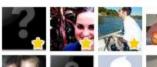




18 Meetups

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Past Meetups 41

Developing New Ideas for New Companies: Edu-Startup Focus

The Tipster

New York, NY











RSVP NEEDED: https://class.coursera.org/innovativeideas-001/class/index email Mark at Markwguay@gmail.com if you are interested in going. These will be a bi-weekly meet... Learn more Sun Feb 10 3:00 PM



- 7 Courserians attending
- 4 comments

vveiconie, iviumbai ooursenans

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Past Meetups 11

Web Based Startup | for `Developers, Innovaters, Investors, Writers'

Andheri

Mumbai, India



All Those Who Want To Start A Web Based Solution For `Education, College/Schools Events'.

Sat Feb 16 6:45 PM



- 2 Courserians attending
- 2 comments

#Soc101 Meet in Mumbai, India

Candies Bandra

Sat Feb 16

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ThinkAgain: Reference Card Week 4

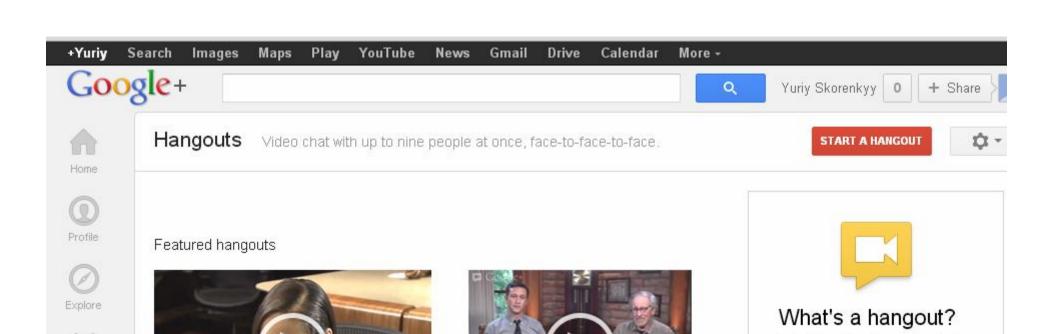
Reference Card Week 3 <---- Reference Card Week 4 ----> Reference Card Week 5

Propositional Logic

A propositional connective is a phrase that connects to one or more propositions in order to express another proposition (a proposition is either a premise or a conclusion, and can be either true of false), e.g. "it is necessary that X", "it is true that", etc

- The final proposition may not logically depend on the original proposition(s) (whether "I hate it when [proposition]" is true is independent of whether [proposition] is true)
- When the final proposition is dependent or the original proposition(s) ("[proposition 1] and [proposition 2]"), the connective is called a truth-functional connective
 - The associated truth table stays the same even if we change the propositions
 - Conjunction: a connective that requires all original propositions to be true ("and" or "&")
 - a conjunction introduction argument is a valid argument which the conclusion conjoins two or more of the premises (e.g. A, B .: A and B)
 - a conjunction elimination argument is a valid argument which the conclusion is a conjunct of some conjuntion that appears in the premises (e.g. A and B .: A)

```
q p&q
```





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Start a hangout



906

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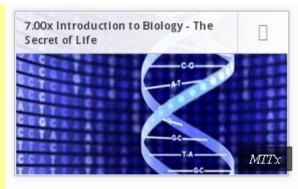


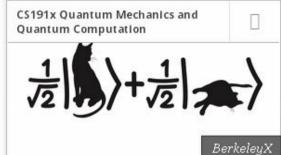


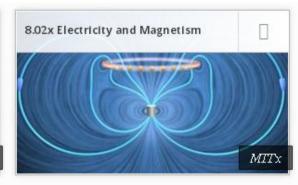






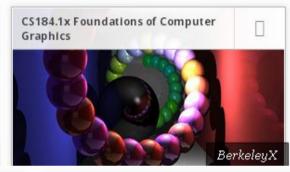


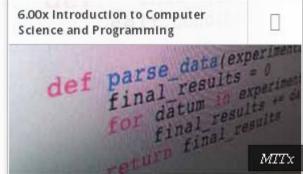






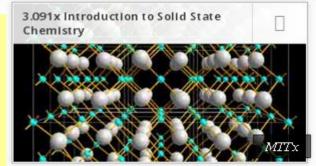




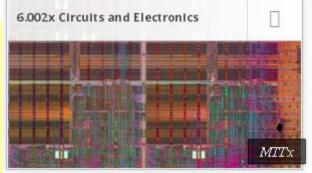




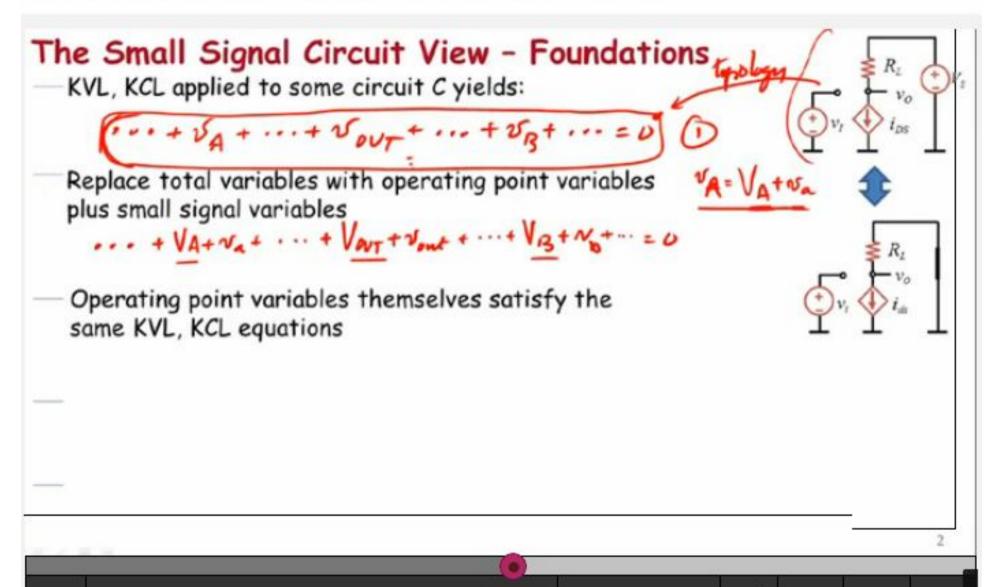






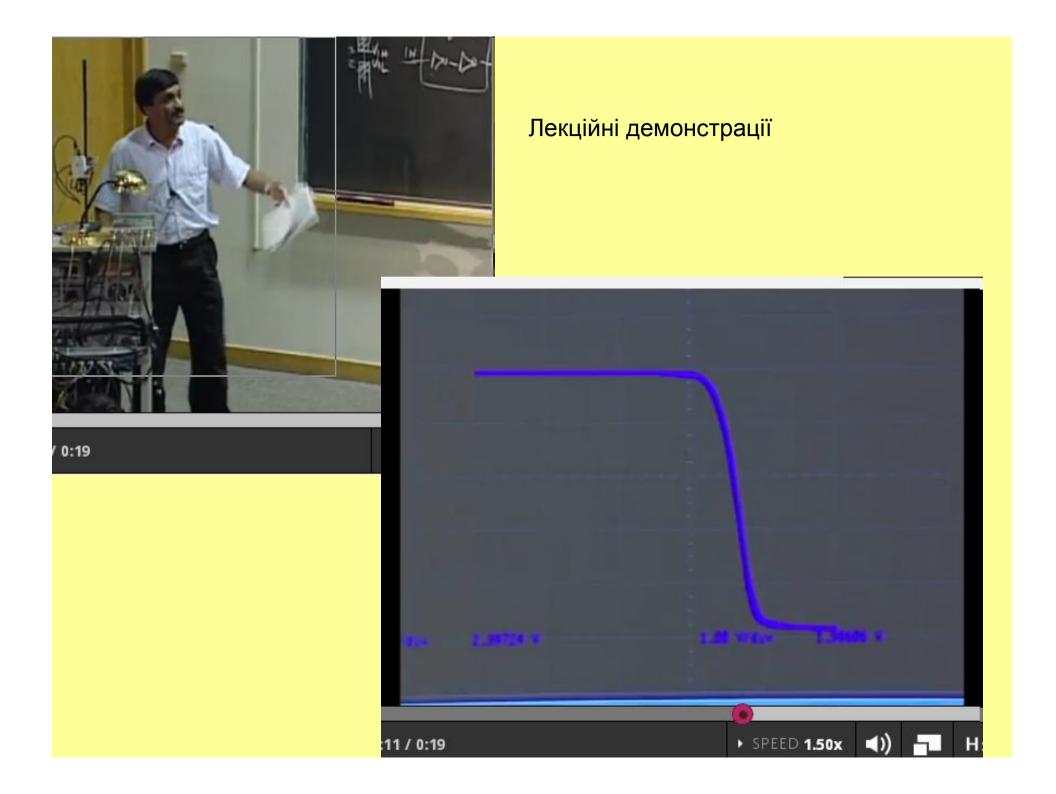


S11V10: PERSPECTIVE ON THE SMALL SIGNAL CIRCUIT

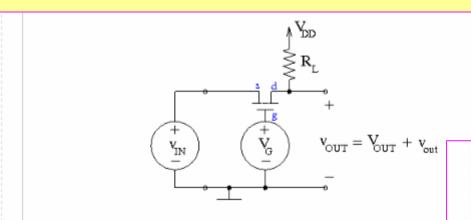








Вбудовані інструменти аналізу електричних схем!



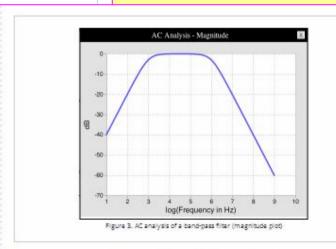
The MOSFET's parameters are: $V_T=1.1$ V and K=0.009AV 2 . The resistance o $R_L=220.0\Omega$

If in the application of this circuit the input voltage v_{IN} may swing between $1.0 {
m v}$ the minimum value of the bias voltage V_G , in Volts, needed to keep the MOSFET of

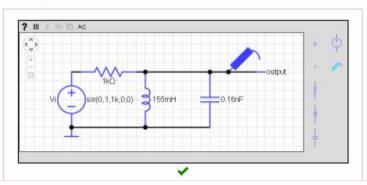
2.1

Assume $V_{C}=4.0$ V, and the input swing is as specified. What is the minimum value of the power-supply voltage V_{DD} , in Volts, needed to saturation?

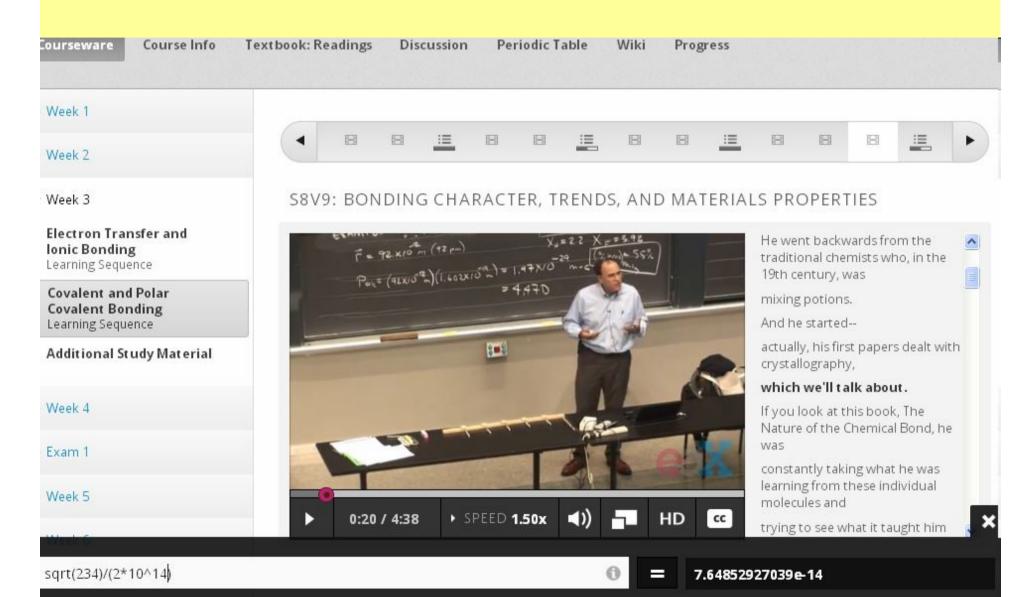
2.9



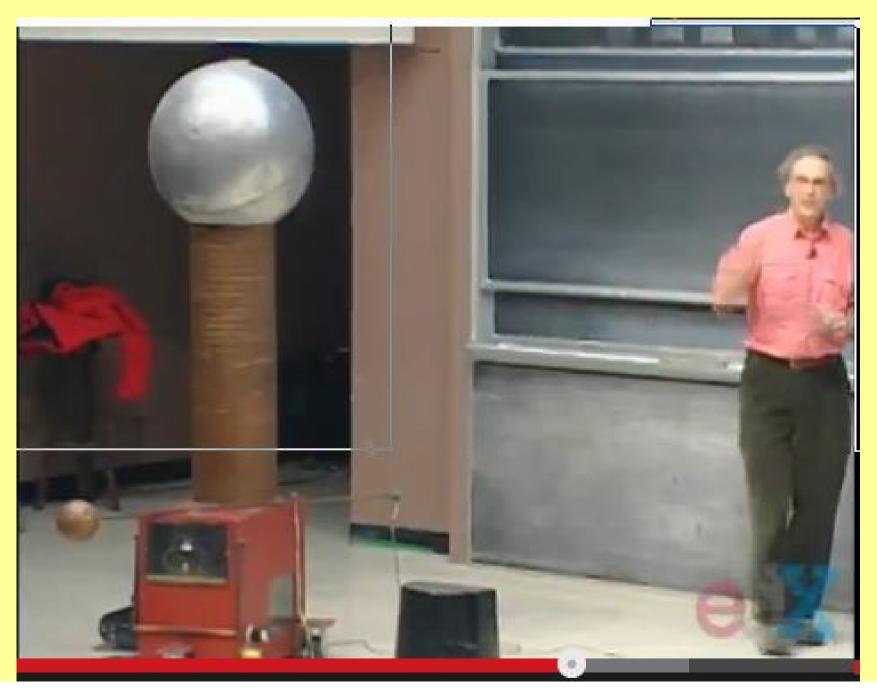
Hint: Cascade a low-pass and high-gass filter — their effects are cumulative. We've just finished analyzing one of each above! Complets the directit below, adding the appropriate directity between the voltage source and V_0 , the node labeled 'output' in the schematic.

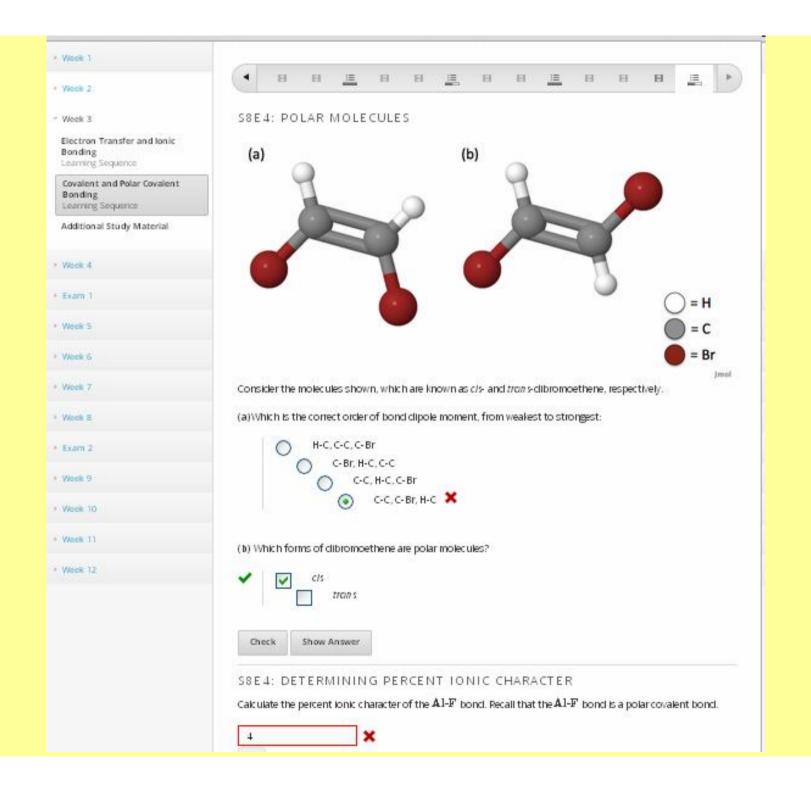


Ефект присутності в аудиторії



НЕ НАМАГАЙТЕСЯ ПОВТОРИТИ В АУДИТОРІЇ!



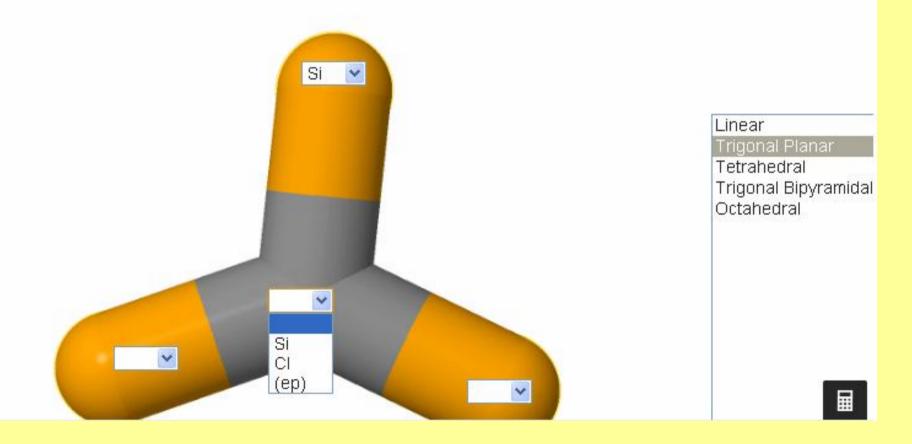


Конструктор молекул

S10E3: SILICON TETRACHLORIDE

Silicon (Si) reacts with chlorine (Cl), forming the compound $SiCl_4$.

(a) Construct the structure of $SiCl_4$.



Модульний контроль

ELECTRIC FIELD ON THE SURFACE OF A CONDUCTOR: 7.0 POINTS

Note that you get 2 attempts for this problem. Everytime you click "Check" you use one attempt, so plan wisely. We encourage you to use the "Save" button if you need to save your answers and submit them later after you have answered all parts, or checked all answers.

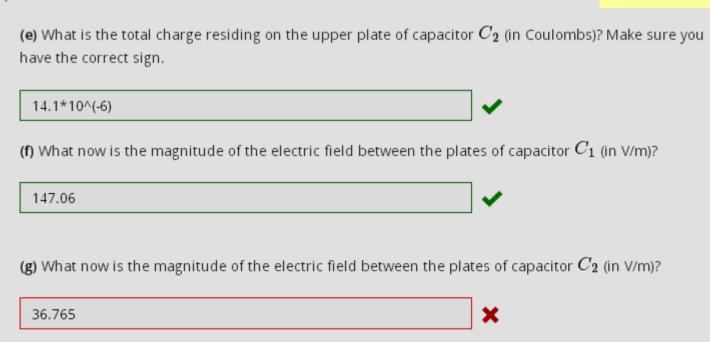
The electric field at point A on the surface of a conductor is 32×10^3 V/m. What is the surface charge density (C/m^2) at that point?

0,5664*10^(-6)

Final Check

Save

You have used 2 of 2 submissions

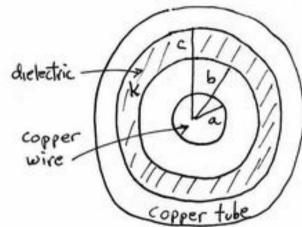


You have used 4 of 5 submissions





A certain coaxial cable consists of a copper wire, radius a, surrounded by a concentric copper tube of inner radius c. The space between is partially filled (from b out to c) with material of dielectric constant K. The goal of this problem is to find the capacitance per unit length of this cable. You may neglect edge effects.



Note that for technical reasons, we use the symbol l for charge per unit length, rather than the more typical λ . Do not get confused, l is not a length!

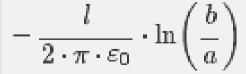
(a) Assume that the copper wire has uniform positive charge per unit length l and the copper tube has uniform negative charge per unit length on it's inner surface -l. Calculate the radial component of the electric field in the region $0 < r < \alpha E$ xpress your answer in terms of a,b,c,K, l,r, and ϵ_0 (enter epsilon_0 for ϵ_0 , pi for π and $\ln \alpha$) for natural logarithm of α).



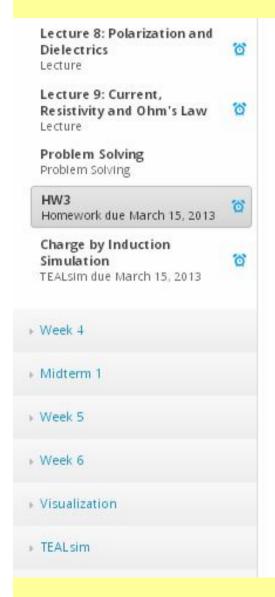
Calculate the radial component of the electric field in the region a b,c,K, l,r, and ϵ_0 (enter epsilon_0 for ϵ_0 , pi for π and $\ln \epsilon_0$) for r

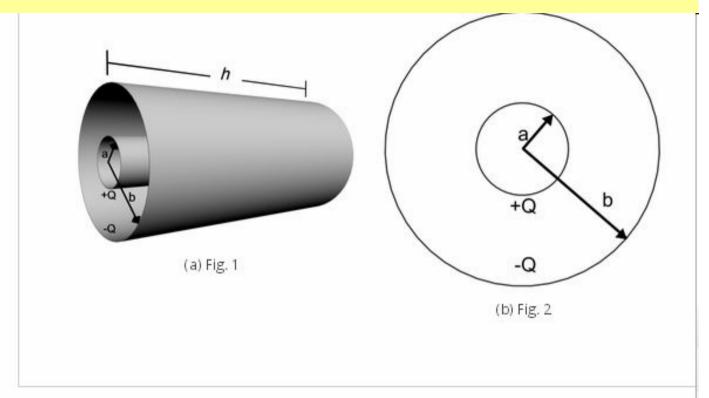


-1/(2*pi*epsilon_0)*ln(t



Перевірка аналітичних формул!





(a) What is the capacitance per unit length? Express your answer in terms of a,b and ϵ_0 (enter epsilon_0 ϵ_0).

$$2*pi*epsilon_0/ln(b/a)$$
 $2 \cdot \pi \cdot \frac{\varepsilon_0}{\ln\left(\frac{b}{a}\right)}$

2*pi*epsilon_0/ln(b/a)
$$2 \cdot \pi \cdot \frac{\varepsilon_0}{\ln\left(\frac{b}{a}\right)}$$

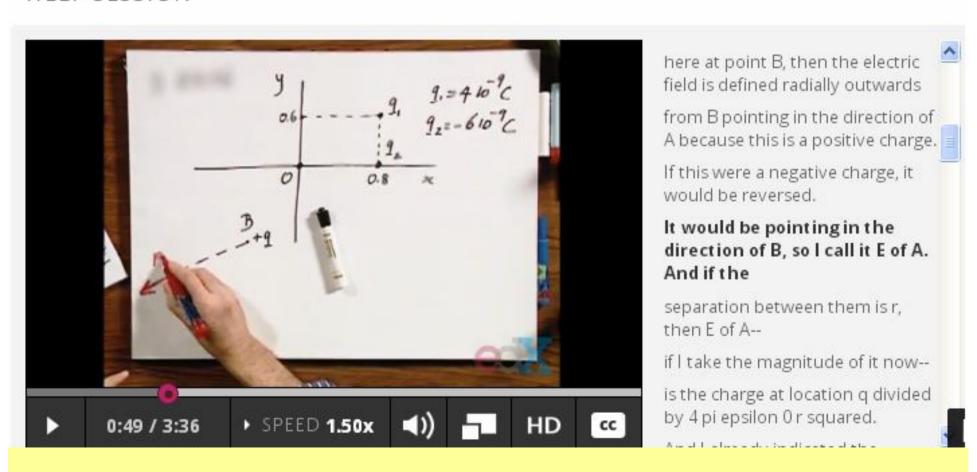
Вбудовані візуалізації!

(Please be patient - the simulation may take ~20 seconds to load) **Parameters** Charge Charge **Parameters** Charge -0.6 Charge Field Visualizat Show Vector Field Gr ✓ Field Lines Grass Seeds Electric Potential Reset camera Resume Reset S

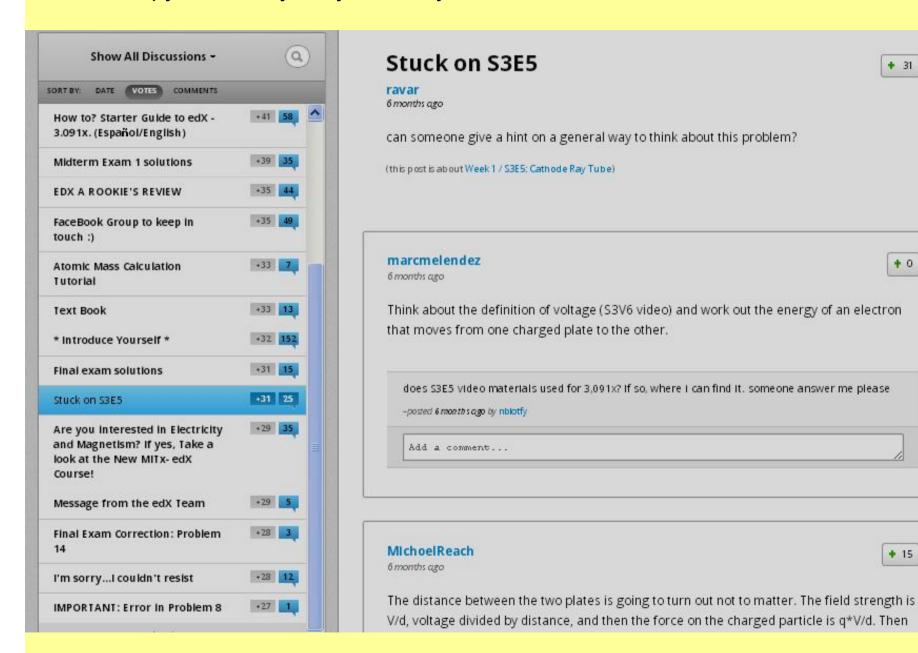
Консультація: повторюй, скільки треба

We have two point charges, one positively charged ($q_1=4\times 10^{-9}$ C located at x=0.8 m and y=0.6 m) and one negatively charged ($q_2=-6\times 10^{-9}$ C located at x=0.8 m and y=0.0 m). Find the electric field (magnitude and direction) at the origin due to these two charges.

HELP SESSION



Форум, в якому хочуть і можуть допомогти



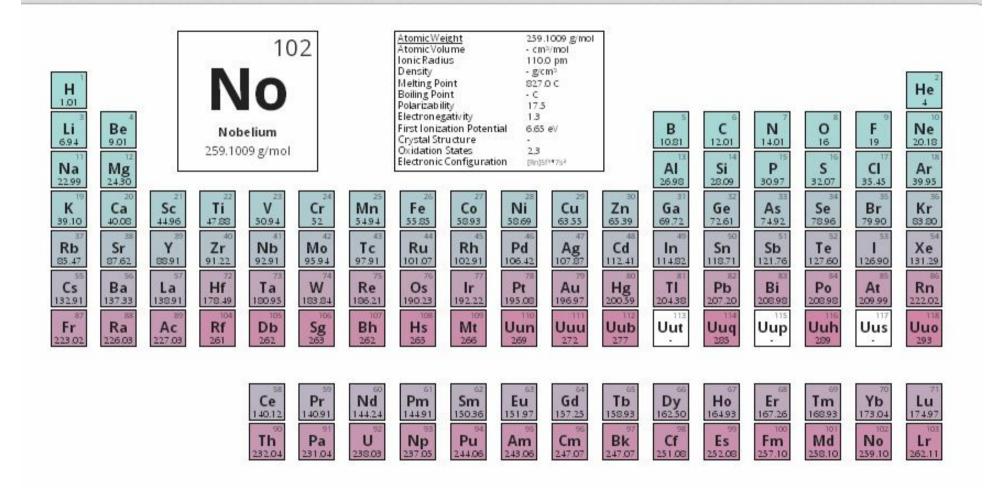
+ 31

+ 0

+ 15

Інтерактивні довідкові системи

A https://www.edx.org/courses/MITx/3.091x/2012 Fall/periodic table/



Підручники у відкритому доступі!

- Bonding in Metals,
 Semiconductors, and
 Insulators Band Structure
- 4. Nature of Crystalline Solids
- 5. X-rays and Diffraction
- 5a. Elastic Behavior of Solids
- 6. The Imperfect Solid State
- 6a. Bonding and Surfaces
- 7. Glasses
- 8. Theory of Reaction Rates
- 9. Diffusion
- 9a. Bonding and Solutions
- Phase Equilibria and Phase Diagrams

k = the Boltzmann constant A = proportionality constant

B. Point Defects in "Pure" Metallic Systems

Point defects in "pure" crystalline metals are defects of atomic dimensions, such as impurity atoms, the absence of a matrix atom and/or the presence of a matrix atom in the wrong place. Some of these point defects are shown in fig. 2. An impurity atom that

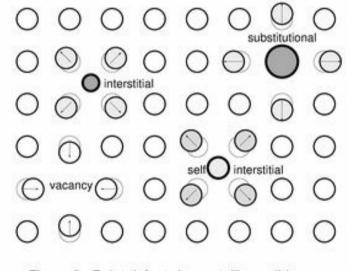


Figure 2 Point defects in crystalline solids

4 474 47 4 5 745

occupies a normal lattice
site is called a
substitutional impurity
atom and an impurity
atom found in the
interstice between matrix
atoms is called an
interstitial impurity atom.
Whether a foreign atom
will occupy a substitutional

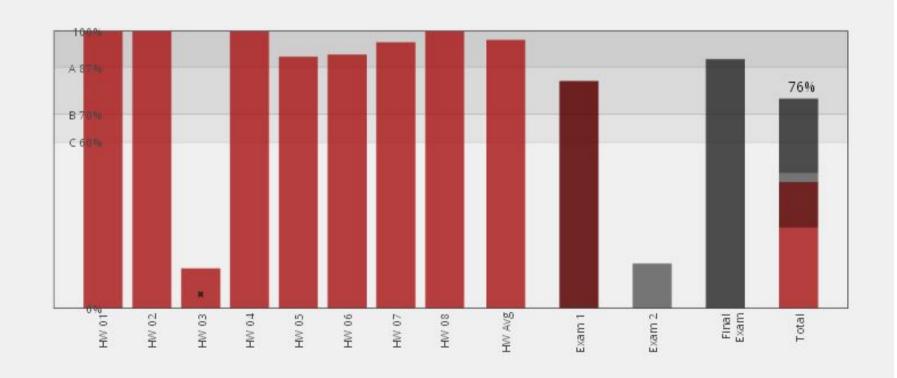
or interstitial site depends largely on the size of the atom relative to the size of the site.

Small atoms are usually interstitial impurities, while larger atoms are usually

Можливість контролювати і прогнозувати свої досягнення

Courseware Course Info Textbook: Readings Discussion Periodic Table Wiki Progress

Course Progress



... Інші приємні дрібниці ... 😊



Certificate

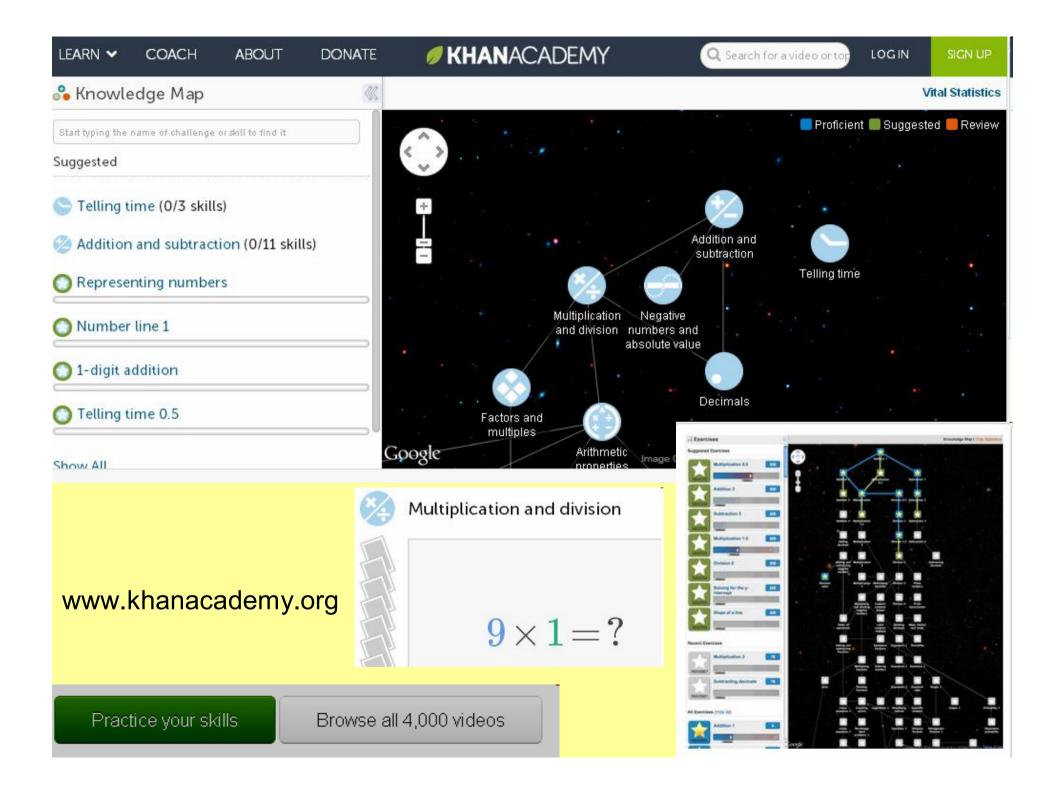
This is to certify that

Yuriy Skorenkyy

has successfully completed Circuits and Electronics 6.002x

A course of study offered by MITx, an online learning initiative of MASSACHUSETTS INSTITUTE OF TECHNOLOGY, through odX, the online learning initiative of Harvard University and MIT

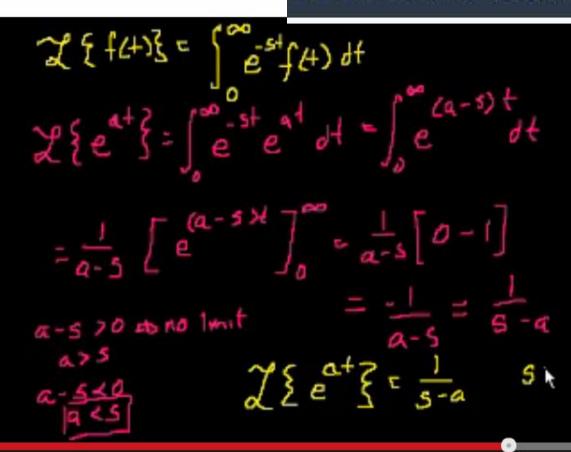
W. Eric L. Grimson, Interim Dean of Online Education, MITx JUNE 12¹⁸, 2012





LAPLACE TRANSFORM

- Laplace Transform 1
- Laplace Transform 2
 - L{sin(at)}) transform of sin(at)
- Part 2 of the transform of the sin(at)



(i) 5:47 / 7:34





Joined 10 months ago









0/414 0/4069 Energy Points

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□ ☆ 0 []





Test Prep

SAT Math	CAHSEE	Competition Math
GMAT	California Standards Test	IIT JEE

SAT PREPARATION

Community Questions

SAT Math

Sal works through every problem in the first edition of the College Board *Official SAT Study Guide* (ISBN Number: 0-87447-718-2 published in 2004). You should take the practice tests on your own, grade them and then use these videos to understand the problems you didn't get or to review. Have fun! If you're using the second edition of the study guide with 10 practice tests, you can still use some of these videos. Practice tests 4-10 in the newer book correspond to tests 2-8 below.

SAT prep: test 1 section3 part 1

SAT Prep: Test 4 Section 8 Part 1

SAT Prep: Test 1 Section 3 Part 2

SAT Prep: Test 4 Section 8 Part 2

Math



Arithmetic and pre-algebra	Calculus	Linear algebra
Algebra	Probability and statistics	Applied math
Geometry	Differential equations	Recreational mathematics
Trigonometry and precalculus		

Science & Economics

Finance and capital markets	Healthcare and medicine
Microeconomics	LeBron asks
Macroeconomics	Projects
Computer science	MIT+K12
	Microeconomics Macroeconomics

Organic chemistry

Computer Science

Drawing	Animation	User Interaction
Programming Basics		

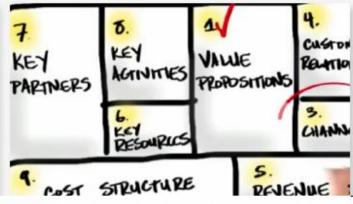


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Stanford Venture Lab
☐ Khan Academy
iTunes U
Local community college
For-profit college (i.e. University of Phoenix, etc.)



NATURE | NEWS FEATURE

Online learning: Campus 2.0

Massive open online courses are transforming higher education — and providing fodder for scientific research.

M. Mitchell Waldrop

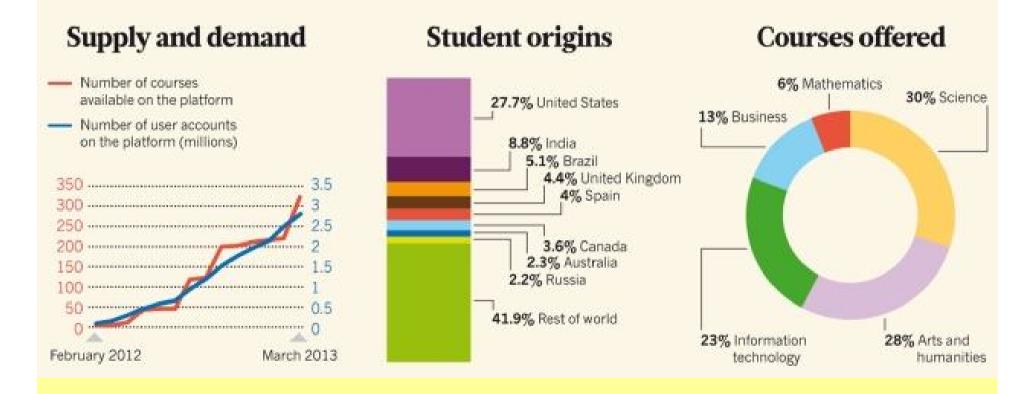
13 March 2013 | Corrected: 20 March 2013





MOOCs rising

Over little more than a year, Coursera in Mountain View, California — the largest of three companies developing and hosting massive open online courses (MOOCs) — has introduced 328 different courses from 62 universities in 17 countries (left). The platform's 2.9 million registered users come from more than 220 countries (centre). And courses span subjects as diverse as pre-calculus, equine nutrition and introductory jazz improvisation (right).



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Open Learning: The Journal of Open, Distance and e-Learning http://www.tandfonline.com

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Horizon Report > 2013 Higher Education Edition





