МІЖНАРОДНА НАУКОВО - МЕТОДИЧНА КОНФЕРЕНЦІЯ Актуальні питання організації навчання іноземних студентів в європейському освітньому просторі 14 травня 2014 р.

ВПРОВАДЖЕННЯ МЕТОДИЧНИХ ЗДОБУТКІВ МАСОВИХ ВІДКРИТИХ ОНЛАЙН КУРСІВ У НАВЧАЛЬНУ ПРОГРАМУ УКРАЇНСЬКОГО УНІВЕРСИТЕТУ

Юрій Скоренький кафедра фізики ТНТУ skorenkyy@tstu.edu.ua



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en.wikipedia.org/wiki/Massive_open_online_course *

A massive open online course (\mathbf{MOOC}) is an online course aimed at unlimited participation and open access via the web. In addition to traditional course ...

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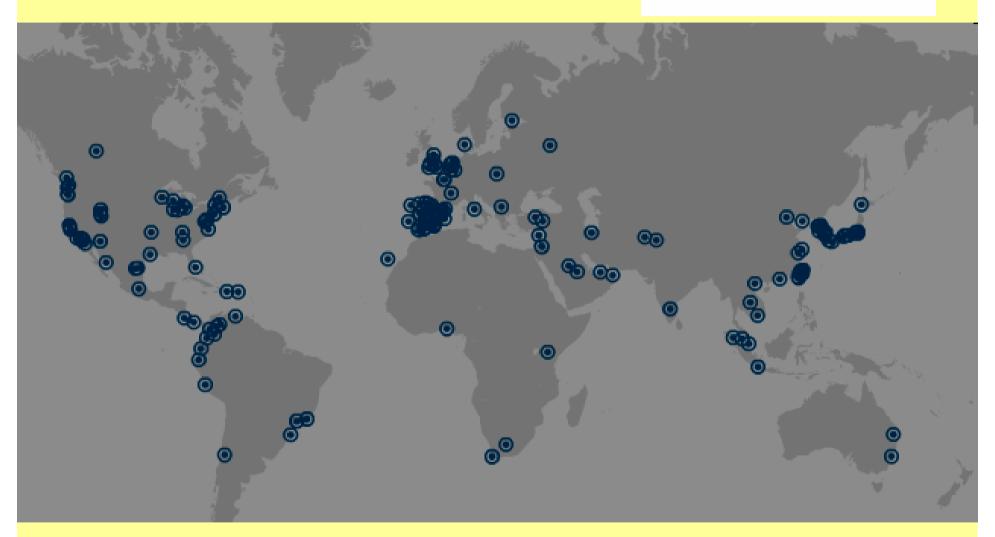
Cryptography

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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



Daphne Koller:

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



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.

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École Polytechnique Fédérale de Lausanne
Physique générale – mécanique
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Feb 28th

course info un-enroll

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Vanderbilt University »



University of Colorado Boulder University of Colorado System Physics 1 for Physical Science Majors

Sep16th

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Dec 9th



Stanford University Organizational Analysis

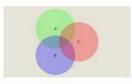
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Princeton University
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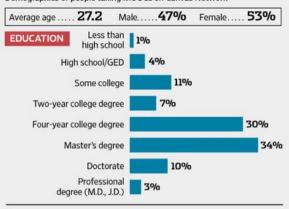
www.edx.org

Course Evaluation | Taking the measure of MOOCs

THE WALL STREET JOURNAL.

Who the Students Are

Demographics of people taking MOOCs on Canvas Network



Signing On

Surveyed students said their main reason for taking a course was:



Logging Off

Canvas Network in May and June 2013

Forty-four percent of those surveyed said they didn't finish their course. The biggest reason:



230 million: Number of data points collected about student activities in a single edX course

> 11 minutes: Median time it takes for a response to emerge to a question posted in an edX course forum

55%: Pass rate for a traditional intro engineering class at San Jose State

91%: Pass rate for the same class taught with online MOOC component

Midnight to 2 a.m.: Peak hours for viewing edX lecture videos

52%: Among students who earned pass certificates in an edX course, the share who were active in discussion forums

2.2 pts: Increase in final course scores vs. comparable students, on a 100-point scale, from spending one more hour on homework in the edX course

In one hybrid MIT class, most students said they played lectures at 1.5 x the recorded speed while tracking the transcripts

1.3: Total number of edX students to date, in millions; includes 158,000 from India and 117,000 from Africa

13: Age of youngest edX student

Sources (from top): edX (2); San Jose State University (2); edX; MIT Teaching and Learning Laboratory and Andrew Ho, Harvard (2); edX (3)

Passing Grades

The percentage of students who earned a C or better in these Udacity MOOCs and their traditional counterparts at San Jose State University

	SPRING 2013 MOOC	SUMMER 2013 MOOC	ON-CAMPUS COURSE*
Entry-level math	24%	30%	46%
College algebra	25%	73%	65%
Elementary statistics	50%	83%	76%

Based on past six semesters

Note: Some students in the spring math and algebra MOOCs had previously failed the campusbased versions of the courses. The overall completion rate for MOOCs fell to 60% in the summer from 83% in the spring.

Source: San Jose State University

Keep It Short

The median amount of time certificate-earning students spent watching a video vs. video length (in minutes) in four math/science MOOCs from edX

VIDEO LENGTH	TIME SPENT WATCHING	
0-3 minutes	1.04	
3-6 minutes	4.16	
6-9 minutes	6.25	
9-12 minutes	5.71	
12-15 minutes	4.42	
15-40 minutes	3.30	
Source Philip Gun Unio	versity of Rochester/adV	

Newbies and Old Hands

Modern and Contemporary American Poetry

Archaeology's Dirty Little Secrets

Source: Coursera

Courses from the MOOC provider Coursera with the youngest and oldest students

Students	
YOUNGEST	AVERAGE AGE
Probability	28.9
Computer Architecture	30.0
Contraception: Choices, Culture and Consequences	30.3
Introduction to Tissue Engineering	30.3
C++ for C Programmers	30.4
OLDEST	AVERAGE AGE
Health Policy and the Affordable Care Act	45.1
The Kennedy Half-Century	44.3
Growing Old Around the Globe	44.1

42.8

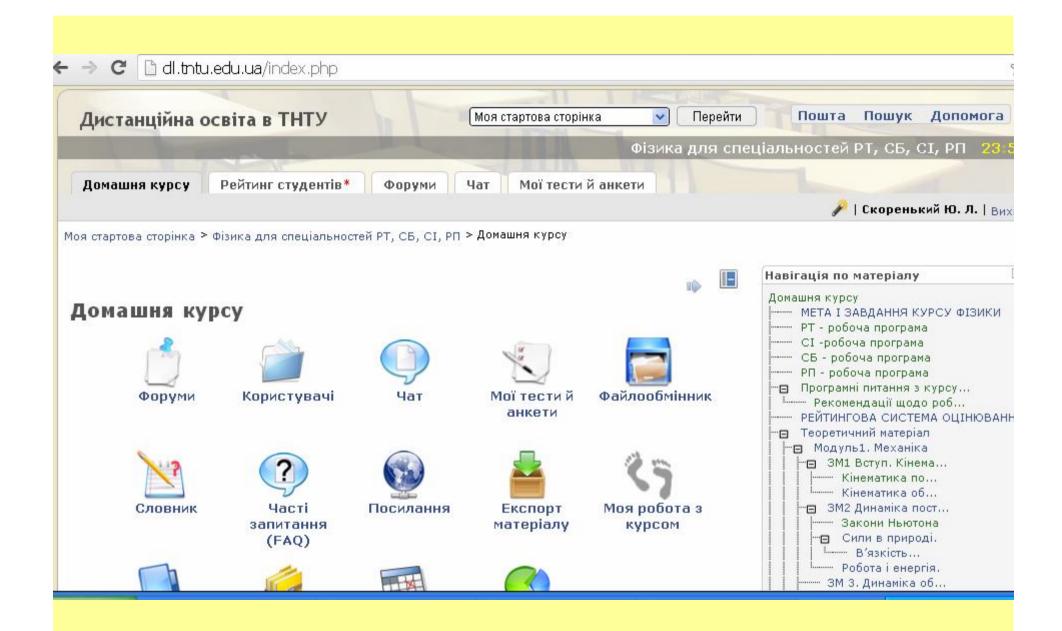
42.7

The Wall Street Journal

An Early Report Card on Massive Open Online Courses

MOOCs promise to change the face of higher education, one giant classroom at a time. Here's what they're doing well—and how they can do better.

By Geoffrey A. Fowler October 8, 2013

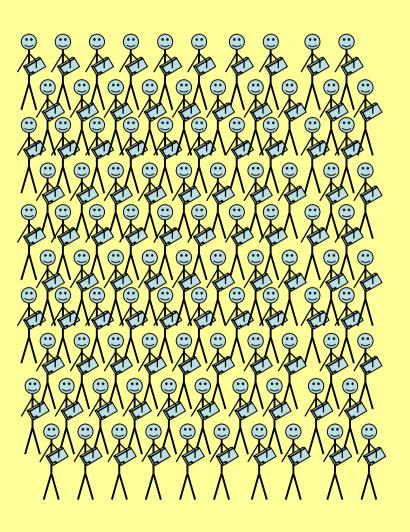


Atutor

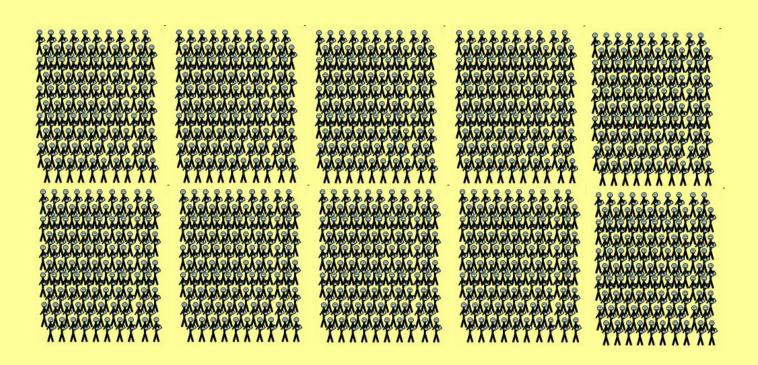
group



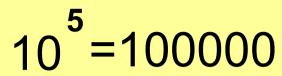
class

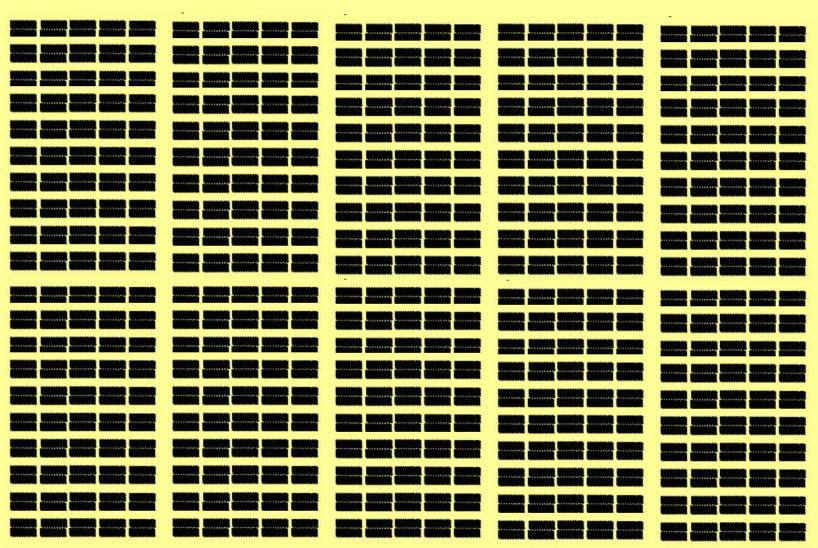


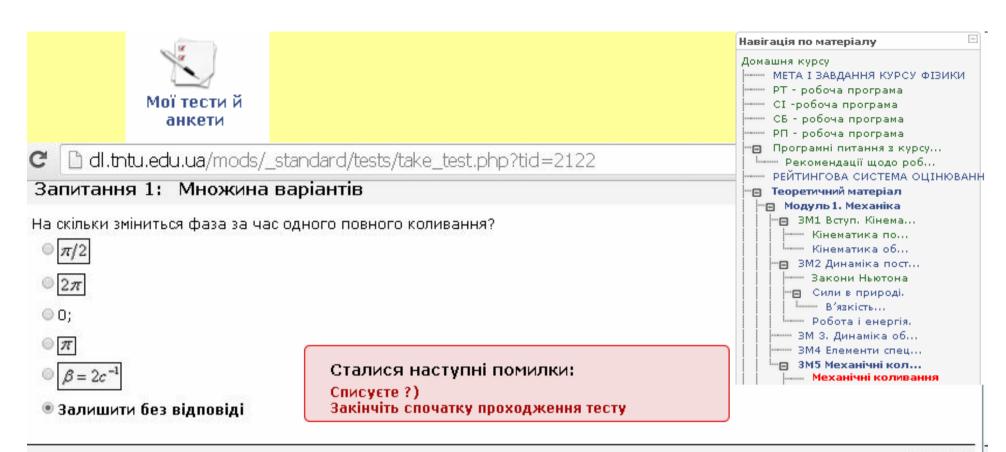
open online course



Massive open online course







Запитання 2: Множина варіантів

1 Балів

Гармонічне коливання матеріальної точки представлено рівнянням $x = A \sin(\alpha t + \varphi)$ Який вираз визначає прискорення цієї точки в початковий момент часу?

- \bigcirc $A\omega^2$
- $-A \omega^2 sin(\omega t + \varphi)$
- A∞cos φ
- A w² sin wt
- A ω cos (αt + φ)
- 🆲 Залишити без відповіді

Пройшло часу:



********** RESEARCH & PRACTICE IN ASSESSMENT

Studying Learning in the Worldwide Classroom: Research into edX's First MOOC

Lori Breslow, David E. Pritchard,
 Jennifer DeBoer, Glenda S. Stump,
 Andrew D. Ho, and Daniel T. Seaton

VOLUME EIGHT | SUMMER 2013 www.RPAjournal.com ISSN # 2161-4210

Published by: VIRGINIA ASSESSMENT GROUP www.virginiaassessment.org

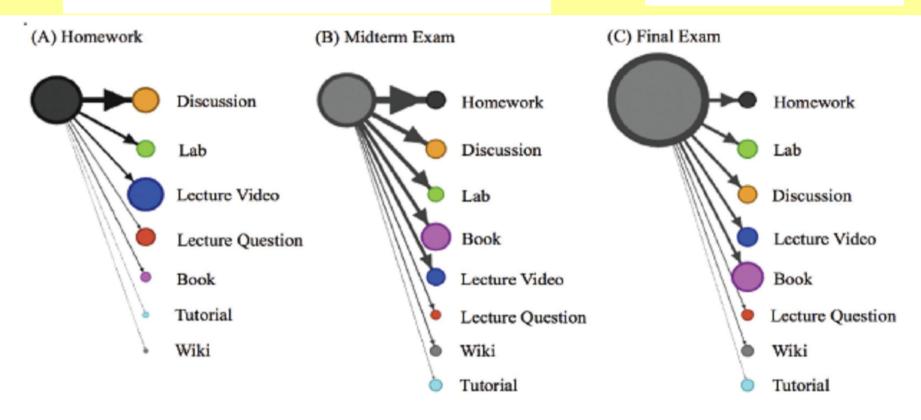


Figure 5. Which resources are used while problem solving? Activity (hits), registered by thicker arrows, is highest for resources listed at the top. Node size represents the total time spent on that course component.

Нове в методах оцінювання (крім стандартних тестів):

- 1. Комплексні ("ступінчасті") задачі / тести;
- 2. Взаємне оцінювання письмових робіт (відкритих тестів);
- 3. Кваліфікована участь в форумах;
- 4. Командні / індивідуальні онлайн-проекти.

Все - з автоматизованим оцінюванням!

A proton is released from rest at the origin in a uniform electric field in the positive x direction with magnitude $850\,N/C$.

What is the change in the electric potential energy of the proton-field system when the proton travels to $x=2.50\,m$?

$$\circ$$
 +3.40 * 10⁻¹⁶ J

$$\circ$$
 $-3.40*10^{-16}J$

$$\bigcirc +2.50*10^{-16}\,J$$

$$\circ$$
 -2.50 * 10⁻¹⁶ J

Check

Save

You have used 0 of 2 submissions

LS4.HW2 (3 points possible)

The electric potential at $x=5.00\,m$ and y=3.00m is $120\,V$ and the electric potential at $x=7.50\,m$ and $y=8.00\,m$ is $180\,V$.

The electric field is along the axis between the two points and is uniform. What is the magnitude of the Electric Field in N/C in this region?

Help

Helb

In a uniform E field the relationship between the field magnitude and change in potential is $\Delta V = -Ed$ Use the pythagorean theorem to find the separation between the two points, and the potential difference of 60V.

Check

Save

You have used 0 of 3 submissions

MATH EXPRESSION INPUT (5.0/5.0 points)

A spherical capacitor consists of a spherical conducting shell of radius b and charge -Q concentric with a smaller conducting sphere of radius a and charge +Q. Enter an expression for the capacitance of this device in terms of Coulomb's Constnat k_e (just type "k") and the two radii a and b. HINT: you may need to apply a negative sign to your final expression to be sure the capacitance comes out positive! Look at your answer and think about which radii is larger.



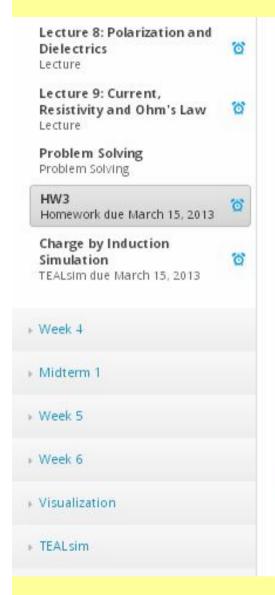
Show Answer(s)

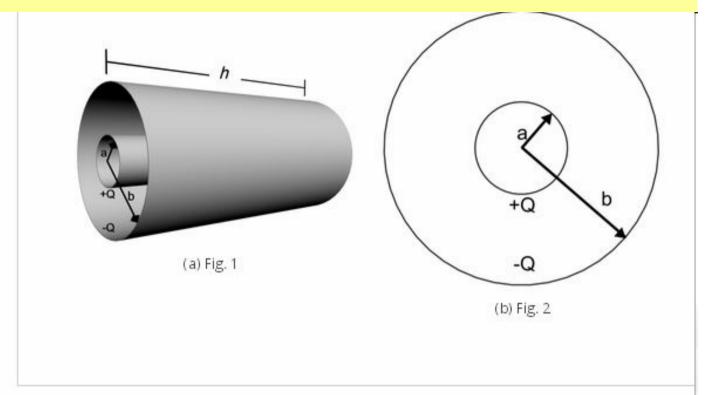
You have used 3 of 3 submissions

Show Discussion



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

Question 1

Simplify the expression

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

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

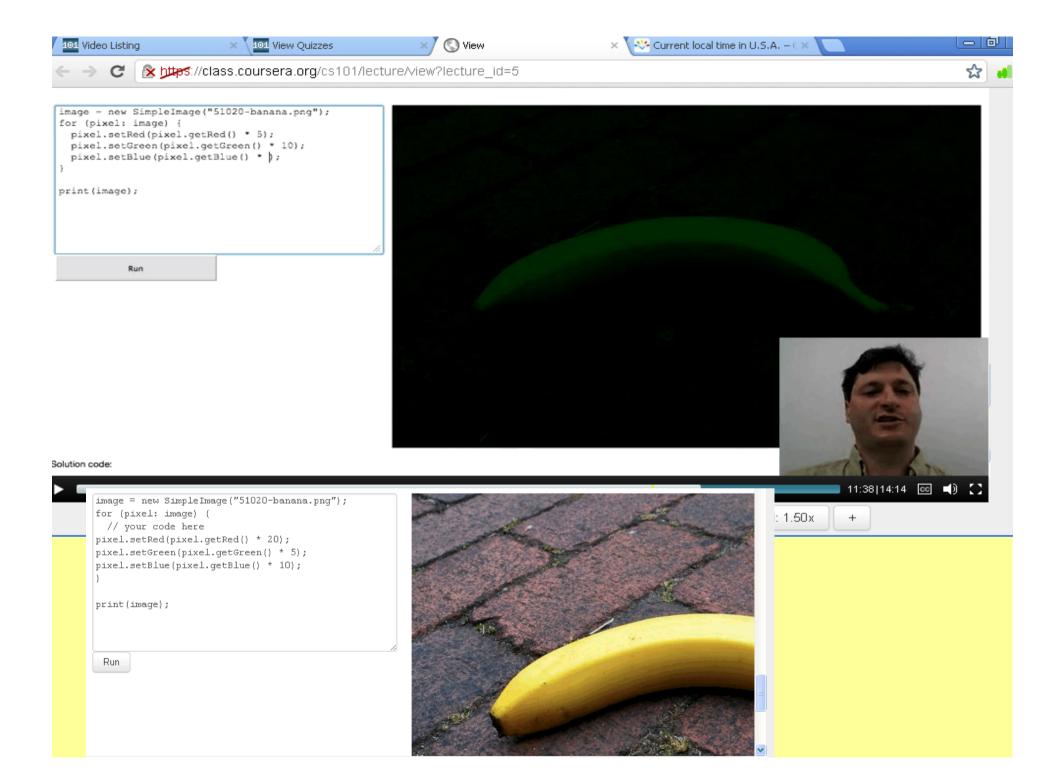
412

Question 1

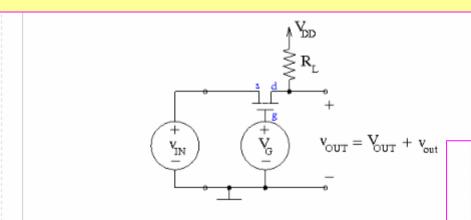
Simplify $(2\sqrt{7} + 3\sqrt{2})(\sqrt{7} - 5\sqrt{2})$. For submitting an answer with symbols, please follow these instructions: "/" means division, "*" means multiplication, and "^" means exponentiation. For adding a square root symbol, use sqrt (NUMBER). Please click the "preview" button for each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

Preview

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



Вбудовані інструменти аналізу електричних схем!



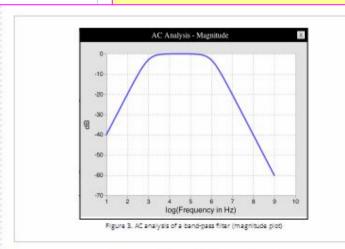
The MOSFET's parameters are: $V_T=1.1$ V and K=0.009AV 2 . The resistance o $R_L=220.0\Omega$

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

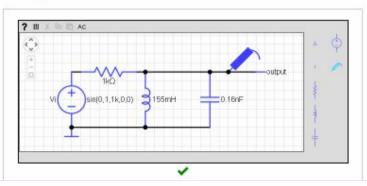
2.1

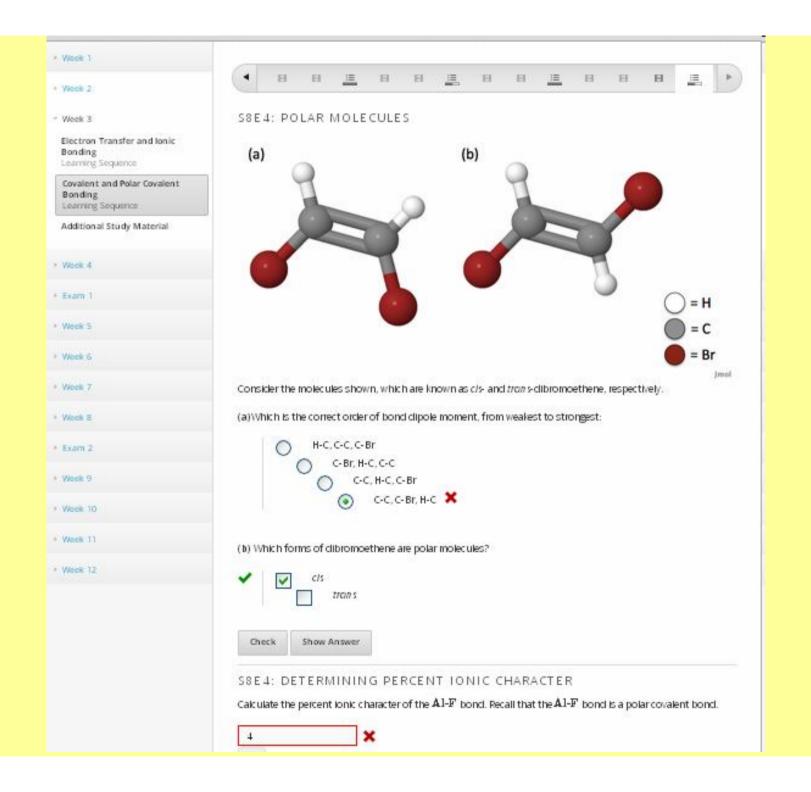
Assume $V_{C}=4.0$ V, and the input swing is as specified. What is the minimum value of the power-supply voltage V_{DD} , in Volts, needed to saturation?

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.



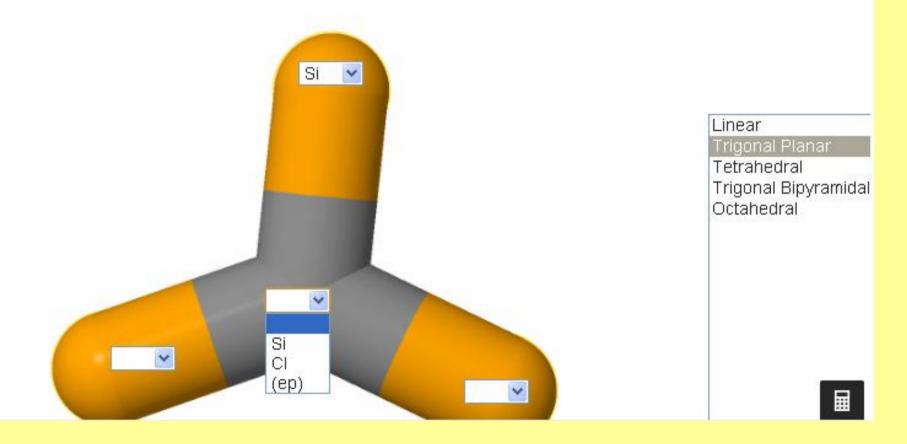


Конструктор

S10E3: SILICON TETRACHLORIDE

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

(a) Construct the structure of $SiCl_4$.



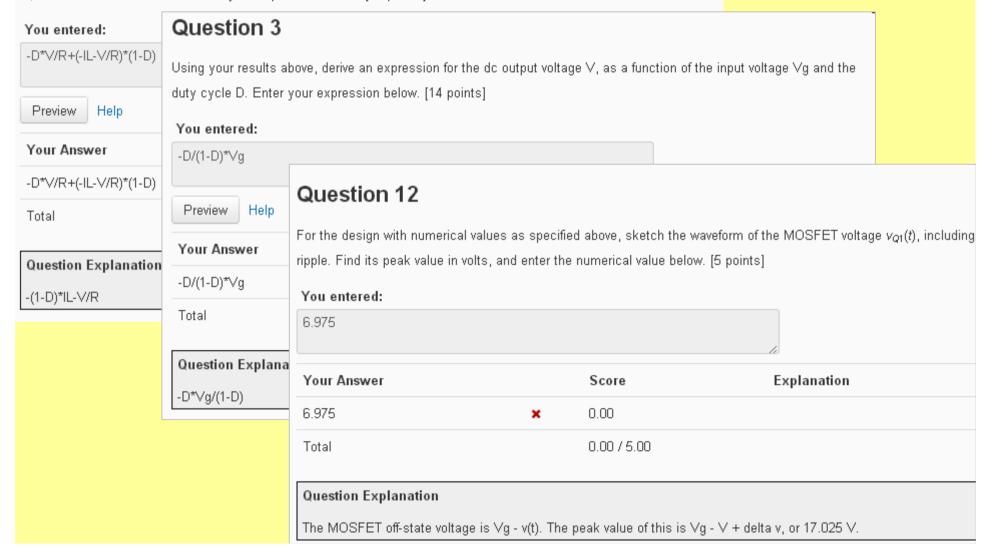
Поетапне розв'язування тестової задачі, з отриманням частини балів

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) × You have used 2 of 2 submissions (e) What is the total charge residing on the upper plate of capacitor C_2 (in Coulombs)? Make sure you have the correct sign. 14.1*10^(-6) (f) What now is the magnitude of the electric field between the plates of capacitor C_1 (in V/m)? 147.06 (g) What now is the magnitude of the electric field between the plates of capacitor C_2 (in V/m)? 36.765 You have used 4 of 5 submissions Final Check Save

"Ступінчастий" тест

Question 2

Sketch the waveform of the capacitor current $i_{\mathcal{C}}(t)$. Employ the small ripple approximation to derive an expression for the dc component of the capacitor current, as a function of the duty cycle D, the dc inductor current IL, the output voltage V, and the load resistance R. Enter your expression below. [14 points]





Global Warming: The Science of Climate Change

by David Archer



Announcements
Course Resources
Syllabus
Class Survey

WEEKLY SCHEDULE

Week 1

Week 2

Week 3

Для "творчого завдання" – сторонній ресурс

Model Aerosols and Climate

The hard deadline for this homework is Sat 14 Dec 2013 9:59 PM PST.

In this quiz, we will use the RRTM Earth's Energy Model again. Instructions for using this model are available on the doc page by clicking on "how to". Remember, for all numeric questions, type in your answer without the units (e.g. put "100" and not "100 K").

In accordance with the Coursera Honor Code, I (Yuriy Skorenkyy) certify that the answers here are my own work.

Question 1

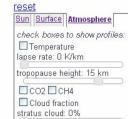
these condition

Set up an atmosphere with a lapse rate of 5 K/km, a CO2 concentration of 400 ppm, a stratus cloud cover of

50%, and a su \leftarrow \rightarrow C \Box climatemodels.uchicago.edu/rrtm/

RRTM Earth's Energy Budget

If the Sun and the Earth's surface and atmosphere have these properties...

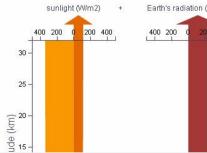


...then the Earth loses as much e

Other Models

About this model

Help



"Дослідницькі" завдання

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Syllabus

Course Information

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Video Lectures

Data Sets / Quizzes

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Surveys

Course Wiki 🗗

Join a Meetup 😅

Week 4

Due Nov. 28, Noon USA Eastern time

In this assignment, you need to build a Bayesian Knowledge Tracing model for data file Asgn4-dataset.csv. This data set is a subset of the data set used in

Baker, R.S.J.d., Corbett, A.T., Roll, I., Koedinger, K.R. (2008) Developing a Generalizable Detector of When Students Game the System. User Modeling and User-Adapted Interaction, 18, 3, 287-314.

This paper can be found at

http://www.columbia.edu/~rsb2162/USER475.pdf

This data set's variables are:

- ID a unique ID for every student action in the Cognitive Tutor used
- · Lesson the tutor lesson the action comes from
- · Student a deidentified ID for the student
- KC the knowledge component (skill) involved
- Item the problem step in the learning system
- Right is the student action right (1) or not right (0)
- Firstattempt is this the student's first attempt at the problem step (1)?
- Time how long did the student attempt take?

3. Взаємне оцінювання – peer assessment



Voici l'énoncé de la série 4.

Veuillez répondre sur une ou plusieurs pages A4 (manuscrites ou pas), scanner (ou photographier avec votre smartphone) et "uploader".

Mécanique - Sévie d'exercicos 4. Exercice 1. Si la force de frottement est presente, la seconde loi de Newton s'ecrit:

Results Phase

4. See results 🗹

Le staff

COMMUNAUTI

Forum de

Join a Me

Evaluate t	the	submissions	of some	classmates

2. Evaluate peers 🗹

Evaluation Phase

		The grade you gave
Student 1		1
Student 2		1
Student 3		1
Student 4	(optional)	1
Student 5	(optional)	1

3. Self-evaluate ☑

You should now do your required self-valuation. Skipping this step will result in a grade penalty. You've evaluated 5 submissions! **You're tops!** Want to evaluate another one?

+ Evaluate another student (optional but useful)

→ Go on to self-evaluation

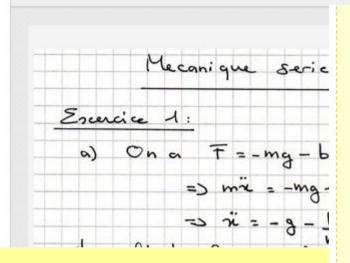
.0 .0

- 1 t

Submission from: Student 1

Voici l'énoncé de la série 4.

Veuillez répondre sur une ou plusieurs pages A4 (manuscrites ou pas), scanner (ou photographier avec votre smartphone) et "uploader".



Evaluation/feedback on the above work

Voici le corrigé de la série 9. Utilisez-le pour juger du travail de vos collègues, ainsi que du vôtre.

Insuffisant (0 pt) correspond à un travail bâclé et/ou incomplet. Suffisant (1 pt) correspond à une copie dont la qualité est juste satisfaisante. Bien (ou très bien, 1 pt) récompense un rendu soigné et complet.

1: Bien	
0: Insuffisant 1: Suffisant	
1: Bien 1: Très bien	que(s) constructive(s) pouvez-vous faire sur le travail que
vous venez de corriger?	
Vous pouvez nuancer et justifier v	otre note brièvement ci-dessous.

Assessing Writing in MOOCs: Automated Essay Scoring and Calibrated Peer ReviewTM

- Stephen P. Balfour

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Factor	AES	CPR
Types of Papers Scored	-Leveled or topical essays	-Single topic from common sources
	-Focused essays	-Short essays
	-Structured is better	-May be a little less structured
	-More literal than figurative	-May be used for some figurative texts
Consistency of Scoring	-Highly consistent	-3 student raters provide feedback with
		visible disparities to the writer
		-Quality of calibrations and rubric
		partially determine consistency of score
Comments Provided	-Major element such as	-May be enabled on every rubric
	creativity, style, and	element
	organization	-Messy, human-based comments
	-Based on statistical analysis	-Vary by reviewer ability and
	or lookup	helpfulness
	-Likely to miss subtle elements	
Instructor/TA Intervention	-Requires training essays:	-CPR problem list may not scale up to
	100+	multiple tens of thousands of students
		-Students often doubt peer assessment
Advantages for Student	-Rapid feedback	-7 uses of instructor rubric on content
Learning	-Categorical and overall	-Teaches evaluation skills
	review	-Self-evaluation after peer review
		-Required repetition/time on task



By JOHN MARKOFF Published: April 4, 2013

Science

Essay-Grading Software Offers Professors a Break

InformationWeek CONNECTING THE BUSINESS

8/5/2013 Automated Essay Grading **Software Stirs Debate**

Some educators say the benefits of EdX's writing-grading software have been overhyped. But I see a role for automation in the classroom.

e-Literate

Six Ways the edX Announcement Gets Automated Essay Grading Wrong

Posted on April 8, 2013 by Elijah Mayfield

THE CONVERSATION

Academic rigour, journalistic flair

26 April 2013, 6.51am BST

Computer thinks you're dumb: automated essay grading in the world of MOOCs

Kolowich, S. (2013, March). The professors who make the MOOCs.

Chronicle of Higher Education.

74% респондентів використовують автоматичне оцінювання; 67.1% вважають його "дуже надійним"

30.1% - "надійним до певної міри".

34% використовують взаємне оцінювання; 25.8% вважають його "дуже надійним", 71% - "надійним до певної міри".

3. Форум — не забавка, а спосіб щось взнати, комусь допомогти і сподобатися викладачу (на оцінку)

Announcements
Video Lectures

Supplementary Materials

About Entering Formulas

Survey

EXERCISES

Homework Assignments

ABOUT THE COURSE

Syllabus

Grading and Logistics

posting or starting a new thread.

Sub-forum	Latest Activity
Chapter 1 and 2 Introduction and Principles of Steady State Analysis	about the conductor's dc value (8 days ago)
Chapter 3 Steady-State Equivalent Circuit Modeling, Losses, and Efficiency	Where to put the '1' in Normalized (a month ago)
Chapter 4 Switch Realization	Chapter 4 Switch selection: I dont (12 days ago)
Chapter 5 Discontinuous Conduction Mode	Lecture 5.3 How to prevent the (16 days ago)
Chapter 6 Converter Circuits	Compensating for the transient response (2 days ago)
Chapter 7 AC Equivalent Circuit Modeling	Does He(s) include the load? (2 days ago)
Chapter 8 Converter Transfer Functions	Bode Plot Correlation to PWM (3 hours ago)
Chapter 9 Controller Design	Constant-current control loops? (6 days ago)

COMMUNITY

Discussion Forums

There's nothing here yet. Sorry!

* See top forum posters

Форум може виявити найкращих

Forums / General Discussion

Question about the Polysilicon Gate

Subscribe for email updates.

Sort replies by:

Oldest first

Newest first

Most popular

🔷 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.



Q

Course Overview Syllabus Frequently Asked Questions Course Calendar Statement of Accompilishment Tracks

CORE MATERIALS

Video Leoture s	
Testbook	
Supplemental Readings	
Disousaton Forum s	
Gul zze c	
Anal Exam	
Small group video	
di sou e sion e	

WRITING ASSIGNMENTS FOR DISTINCTION AND ADVANCED DISTINCTION TRACKS

Overview

Forums / Lecture and Readings / Week 9

Do massive open online course platforms challenge the legitimacy of modern universities?

Subscribe for email updates.



Daniel McFarland (IZER/CORPO) - 2 months ago %

How does a MOOC like Coursera potentially challenge our notions of what a tegl limite university is? Just to sit the pot- online credentials are on their way (with checks for cheating), and what if these courses are merely 50% as effective as a face-to-face one but a fraction of the cost – what does that mean for the modern university and its future?

What of community colleges and other online universities like the University of Phoenix? Will Coursera and elite university offerings put them out of business?

Michael R. Monigomery - 5 days ago %

I hink like is a challenge and will certainly grow as people get used to the concept of on-line learning. However tobserve a high drop out rate amongs i participants indicating that many people either's ruggle with the level of self moltvation involved or simply are not from the generation that have embarked upon IT formatied learning. (among all the other reasons people drop out from a course of course.) Treffection how much brand' will influence this emerging market and will a fully operational physical campus not remain central to its footprint?

↑ 51 **↓** · flag

Philippa Jane Slone - 5 days ago %

its easy to "bite offmore" than you can chew". Dropping out doesn't necessarily mean that the student isn't motivated. If could mean that a) the course was much harder than expected, b) that the student doesn't have access to the technical resources required for some courses or c) find that other courses become available which are exactly what the student requires and a choice has to be made - here are only so many hours in the day.

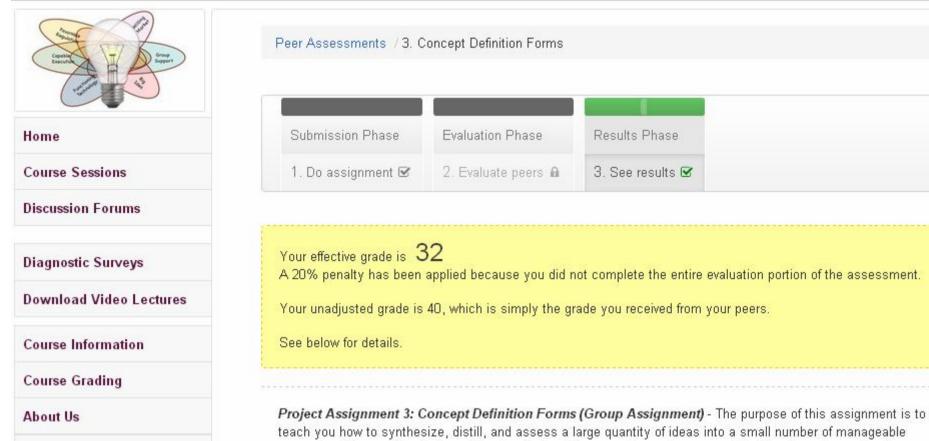
Thate been as lounded at the quality of leaching and how much thate learnt. Yes, fixe dropped out of a couple of courses, infound the subjects very difficult "first time round" white at university and insended training, but "second time around" was no belier and ill cultiny losses. These courses should help younger's kidents to "hybertore they buy", lest out their true interests and get a feet for their preferred universities before embarking on a residential degree course. This must be the utilimate public relations/advertising opportunity for universities ever invented. Local educational establishments could allow students to use their facilities for or-line's tudy. The existing staff could then take on a tuloring role and more subjects could be offered.

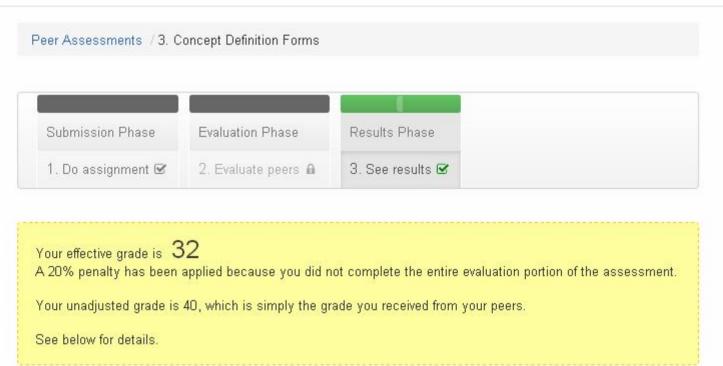
4. Проект як модель професійної співпраці



Leading Strategic Innovation in Organizations

by David A. Owens





Платформа - внутрішня (як форум чи BigBlueButton) чи зовнішні спеціалізовані (Google Docs, Project2Manage, ProjectPier, Bubbl.us, ...)

Constraints Assessment Worksheet

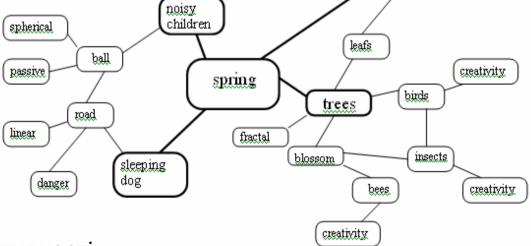
Part 1: Basic Information

Спільні асинхронні розробки



Scenario 3: Humans and rats mix genetically and become a united species





Кватирка для прояву / розвитку креативності

Командний проект, розоблений в рамках дистанційного курсу:

- Документується автоматично;
- Може контролюватися / коригуватися асистентом чи інструктором;
- Можливість встановлювати графік роботи;
- Легкість збереження результатів, встановлення авторства ідеї, обміну інформацією.

Є і недоліки, зокрема:

- Небезпека "торпедування" проекту окремими недобросовісними учасниками;
- Відсутність прямого спілкування.

coursera



Rice University
Fundamentals of Electrical Engineering
Ended a month ago



Rice University
Nanotechnology: The Basics

Ended 4 months ago





MITX

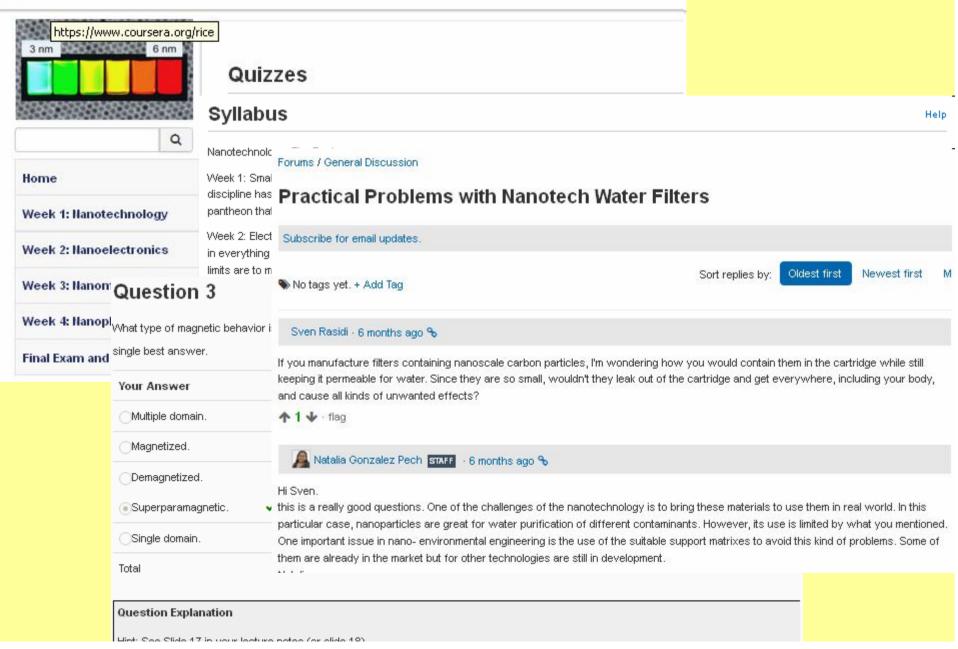
6.002x Circuits and Electronics





Nanotechnology: The Basics

by Professor Vicki Colvin, Daniel Mittleman







Fundamentals of Electrical Engi

by Don H. Johnson





Video Lecture

its application, and KVL is a statement about voltage drops around a closed path regardless of whether the elements are linear or not. Thus, for this simple circuit we have

$$\frac{v_{\text{out}}}{R} = I_0 \cdot \left(e^{\frac{A}{2}(a_{\text{in}}-a_{\text{out}})} - 1\right) \qquad (3.33)$$

Week 1: Basics of Signals and Systems

This equation cannot be solved in closed form. We must understand what is going on from basic principles, using computational and graphical aids. As an approximation, when via is positive, current flows through

Week 2: Circuit Fundamentals

Question 1

- Week 3: Generalizing Resistor Circui What is the period of the sinusoid $s(t) = A \sin(2\pi f_0 t)$ In your answer, write A as A and f_0 as f_0 .
- Week 3 Extras
- Week 4: Signals in the Frequency Do
- Week 5: The Fourier Transform

Preview

Help

- Week 6: Digital Signal Processing
- Week 7: Computing Spectra

Question 2

Week 8: Implementing Digital Filters

The **rms** (root-mean-square) value of a periodic signal s(t) is defined to be

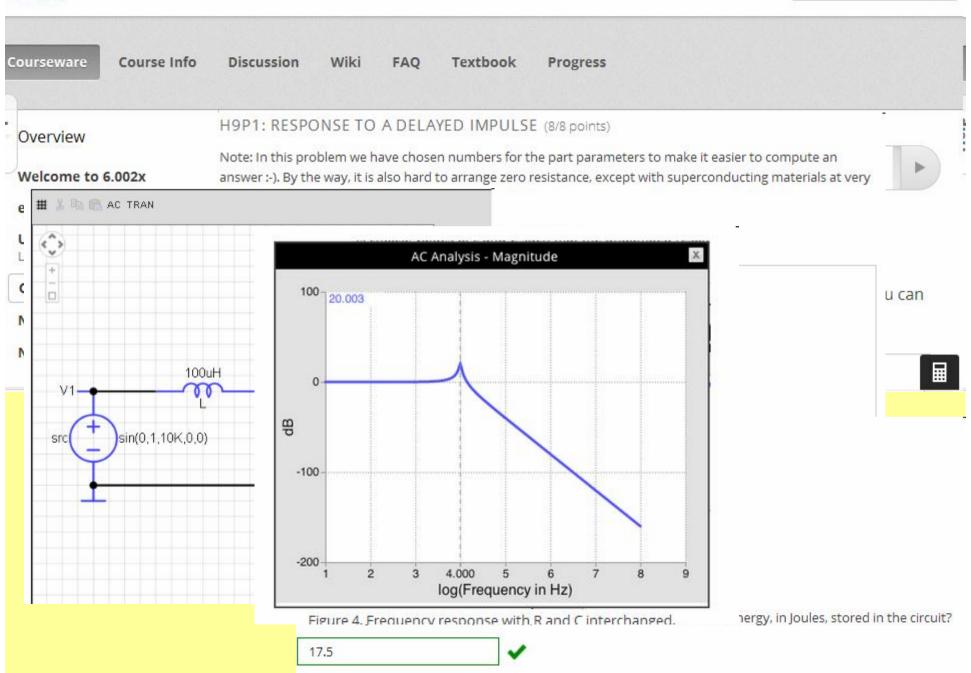
- Week 9: Communication Fundament
- Week 10: Transmitting and Receiving

$$\mathrm{rms}[s] = \sqrt{rac{1}{T} \int_0^T \!\! s^2(t) dt}$$

Week 11: Digital Communication

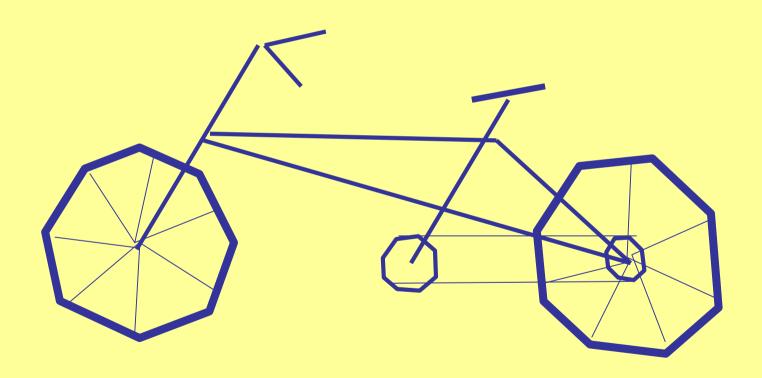
where T is defined to be the signal's \mathbf{period} : the smallest positive number such that s(t) = s(t+T)

Week 12: Communicating Informatiol What is the rms value of the sinusoid $s(t) = A \sin(2\pi f_0 t)$ (Again, write A as A and f_0 as ${\tt f0.}$)



Висновки

Велосипеди існують



Висновки, детальніше

- 1. Електронні системи оцінювання економічно ефективніші та екологічно чистіші від оцінювання "неозброєним оком";
- 2. Переваги електронних тестових систем різноплановість, оперативність обробки результатів та можливість одночасного контролю знань великої кількості студентів, звільнення викладача від монотонної роботи;
- 3. Існують відкриті гнучкі системи тестового контролю, деякі з них з відкритим кодом (наприклад, OpenEDX);
- 4. Варто заохочувати студентів використовувати відкриті дистанційні курси, забезпечуючи більші варіабельність, повноту перевірки різних складових компетентності, роздільну здатність інструментів оцінювання.



Open Yale courses



Stanford | ONLINE







RESEARCH & PRACTICE IN ASSESSMENT

Special Issue: MOOCs & Technology

VOLUME EIGHT | SUMMER 2013 www.RPAjournal.com ISSN # 2161-4210

Open Learning: The Journal of Open, Distance and e-Learning

http://www.tandfonline.com

http://elearnmag.acm.org/featured.cfm?aid=2016017

eLearn
MAGAZINE
Education and Technology in Perspective

http://www.mooc-list.com/



Horizon Report > 2013 Higher Education Edition

THE CHRONICLE OF HIGHER EDUCATION

Kolowich, S. (2013, March). The professors who make the MOOCs. Chronicle of Higher Education. Retrieved March 20, 2013, from http://chronicle.com/article/The-Professors-Behind-the-MOOC/137905/#id=overview.