

## Homework Problem Set 2 Solutions Illinois State University

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Problem Set 2 Solutions. Problem 1. Reconcile the no-cloning theorem with the copying action of the CNOT gate. i.e. if the control qubit is  $|j\rangle$  and the target qubit is  $|0\rangle$ , then the CNOT gate copies the control qubit into the target. A cloning gate,  $U$ , would have to achieve the following operation:  $U|j\rangle|0\rangle = |j\rangle|j\rangle$  thereby creating a second copy of the one-qubit state  $|j\rangle$ .

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## Problem Set 2 Solutions

Homework Problem Set 2 Solutions Problem 01. Let  $H = 1\ 0\ 0\ 0\ 1\ 0\ 0\ 1\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 0\ 1\ 0\ 0\ 1\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 1\ 0\ 0\ 0\ 0\ 1\ 0\ 0\ 1\ 1\ 0\ 1\ 0\ 1\ 1\ 1\ 1$  be a parity check matrix of a  $[15, 11, 3]$  Hamming code. Construct the syndrome table of the code with respect to the given parity check matrix. Using the table to decode received words 010101010101010 and 101010101010101.

## Homework02Solutions.pdf - Homework Problem Set 2 Solutions ...

homework problem set 2 solutions 3.5. An Al film was deposited at a rate of  $-1 \pm$  m/min in vacuum at 25 °C, and it was estimated that the oxygen content of the film was  $10^{-3}$ . What was the partial pressure of oxygen in the system? For this problem, you could use equation 3-24 on p. 116 directly if you get the units right.

## Homework Problem Set 2 Solutions - homework problem set 2 ...

```
/* Problem Set 2 Question 21 by Dillon Morse * -----* For this assignment you will write two programs: * * Program 1: * Write a program that asks the user to enter five numbers. Use a * floating-point data type to hold the numbers. The program should create a * file and save all five numbers to the file. * * Program 2:
```

## C++ Homework Problem Set 2 solutions · GitHub

View Homework Help - homework problem set #2 solutions from ICS 143A at University of California, Irvine. ICS 143A: Principles of Operating Systems Due Date: May 4, 2017 at 11:55

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pm Homework #2 (100

homework problem set #2 solutions - ICS 143A Principles of ...

(a)  $e^{-2x}$  over the range  $x \in [0, a]$  (b)  $\sin ax \sin by$  over the range  $0 \leq x \leq a$  and  $0 \leq y \leq b$ , where  $a$  and  $b$  are constants and  $n$  and  $m$  are integers. (2) A quantum mechanical particle confined to move in one dimension between  $x = 0$  and  $x = L$  is found to have a state described the wavefunction  $\psi(x) = A \sin kx$ .

Homework, Problem Set 2 And Solutions - StuDocu

Solution to Homework Set #2, Problem #2 Part d. Author: Kevin A. Hambleton. In this problem, we have two complex scalar fields with the same mass. We label the fields  $\phi_1(x)$  and  $\phi_2(x)$  where  $a = 1/2$ . The lagrangian for these fields is a sum of the lagrangians of the individual scalar fields, which we may write as  $L = \int d^3x \mathcal{L}$ .

Solution to Homework Set #2, Problem #2 Part d. Author ...

View Homework Help - Problem Set 2 Solutions from PHYS 103 at University of California, Santa Barbara. Homework 2 Solutions Physics 103 Fall 2014 1 Taylor 2.6(a) Equation (2.33) gives the velocity of

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Solution. (a) Let  $A = [I_1 \ I_2 \ I_3 \ \dots \ I_{20} \ m_1 \ m_2 \ m_3 \ \dots \ m_{20} \ s_1 \ s_2 \ s_3 \ \dots \ s_{20}]$ . Now suppose that  $c = Ap$  is the cone response to the spectrum  $p$  and  $\tilde{c} = A\tilde{p}$  is the cone response to spectrum  $\tilde{p}$ . If the spectra are indistinguishable, then  $c = \tilde{c}$  and  $Ap = A\tilde{p}$ . Solving the last expression for zero gives  $A(p - \tilde{p}) = 0$ . In other

## EE263 homework 2 solutions - Stanford University

View Homework Help - Homework 2 Solutions from AE 1350 at Georgia Institute Of Technology. AE Problem Set 2 Oct. 7, 2012 (problems listed in Anderson) 5.26. Consider a light, single-engine airplane

## Homework 2 Solutions - AE Problem Set 2 Oct 7 2012 ...

Problem Set 2 Solutions February 20, 2005 1.1.6 (a) The cost function is convex so the necessary and sufficient condition for optimality of  $x^*$  is  $\sum_{i=1}^m w_i x_i^* / y_i - kx_i^* / y_i k = 0$ ; which is the same as the condition for the equilibrium of forces in the Varignon frame mechanical model. (b) The solution is not always unique.

## Problem Set 2 Solutions - MIT

Physical Chemistry II - Homework, Problem Set 1 And Solutions . Homework, Problem Set 1 and Solutions . University. Washington State University. Course. Physical Chemistry II (Chem 332) Academic year. 2012/2013

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## Homework, Problem Set 1 And Solutions - StuDocu

View Homework 2 solutions from MATH 174A at Stanford University. MATH 174A: PROBLEM SET 2 Suggested Solution Problem 1. Recall that a map  $F$  between complex vector spaces is called differentiable (in

## Homework 2 solutions - MATH 174A PROBLEM SET 2 Suggested ...

Problem Set 2, Solutions 1. Prove that no column in the multiplication table of a group can have a repeat entry. Let  $G$  be a group and suppose that some column in the multiplication table of  $G$  has a repeat entry. Then there are  $a, b, c, d \in G$  such that  $a \neq b$  and  $ac = d = ab$ . So  $ac = bc$ , but by cancellation this implies that  $a = b$ , a contradiction.

## Problem Set 2, Solutions - Cal Poly

Homework Problem Solutions - Set 1; 2. Homework Problem Solutions - Set 2; Skip Settings. Settings. Book administration. Print book. Print this chapter. Skip Navigation. Navigation. Home. Courses (hidden) (hidden) (hidden) (hidden) PHYS1111/1149\_sandpit\_T1\_2019. Participants.

## Tutorial Homework Problems - Solutions to Sets 1 & 2 ...

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10 Part II: Solving Specific Homework Problems 11 Step 1 and 2: Describe the problem behaviors and set a goal 11 Step 3: Brainstorm possible solutions 11 Step 4: Select the solution(s) you want to try 11 Step 5: Establish who will do what in order to implement the plan 11 Step 6: Decide when the plan will be reviewed

## Smart but Scattered Kids.com By Peg Dawson, Ed.D. Center ...

HOMEWORK PROBLEM SET 2: DUE SEPTEMBER 14, 2018 110.302 DIFFERENTIAL EQUATIONS PROFESSOR RICHARD BROWN Question 1. Solve the following linear differential equations (for the general solution if it does not have initial data, or the particular solution if it is an IVP). (a)  $2y'' + y = 3t^2$ . (b)  $y'' + 2y = te^{2t}$ ;  $y(1) = 0$ . (c)  $ty'' + (t+1)y' = t$ ;  $t > 0$ ;  $y(\ln 2) = 1$ .

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