

Fundamentals of Engineering Exam Sample Math Questions

Directions: Select the best answer.

- The partial derivative $\frac{\partial y}{\partial x}$ of $y = x^2z + 3z^2x + 6(x+z)$ is:
 - $2xz + 3z^2 + 6$
 - $x^2z + 6zx + 6z$
 - $2x + 9$
 - $2x + 6z + 6$
- If the functional form of a curve is known, differentiation can be used to determine all of the following EXCEPT the
 - concavity of the curve.
 - location of the inflection points on the curve.
 - number of inflection points on the curve.
 - area under the curve between certain bounds.
- Which of the following choices is the general solution to this differential equation:
 $\frac{dy}{dt} + 5y = 0; \quad y(0) = 1$?
 - e^{5t}
 - e^{-5t}
 - $e^{\sqrt{-5t}}$
 - $5e^{-5t}$
- If D is the differential operator, then the general solution to $(D+2)^2 y = 0$
 - $C_1 e^{-4x}$
 - $C_1 e^{-2x}$
 - $e^{-4x} (C_1 + C_2 x)$
 - $e^{-2x} (C_1 + C_2 x)$
- A particle traveled in a straight line in such a way that its distance S from a given point on that line after time t was $S = 20t^3 - t^4$. The rate of change of acceleration at time $t=2$ is:
 - 72
 - 144
 - 192
 - 208
- Which of the following is a unit vector perpendicular to the plane determined by the vectors $\mathbf{A}=2\mathbf{i} + 4\mathbf{j}$ and $\mathbf{B}=\mathbf{i} + \mathbf{j} - \mathbf{k}$?
 - $-2\mathbf{i} + \mathbf{j} - \mathbf{k}$
 - $\frac{1}{\sqrt{3}} (\mathbf{i} + 2\mathbf{j})$
 - $\frac{1}{\sqrt{6}} (-2\mathbf{i} + \mathbf{j} - \mathbf{k})$
 - $\frac{1}{\sqrt{6}} (-2\mathbf{i} - \mathbf{j} - \mathbf{k})$

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Austin Guildford Schmidt



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PPI FE Review Manual: Rapid Preparation for the Fundamentals of Engineering Exam, 3rd Edition eText - 1 Year Michael R. Lindeburg, 2010-10-21 Michael R Lindeburg PE s FE Review Manual 3rd Edition FE Review Manual offers a complete review for the FE exam This book is part of a comprehensive learning management system designed to help you pass the FE exam the first time This book includes equations figures and tables from the NCEES FE Reference Handbook to familiarize you with the reference you ll have on exam day 13 diagnostic exams to assess your grasp of knowledge areas covered in each chapter concise explanations supported by exam like example problems with step by step solutions to reinforce the theory and application of fundamental concepts access to a fully customizable study schedule to keep your studies on track a robust index with thousands of terms to facilitate referencing Topics Covered Computational Tools Dynamics Kinematics and Vibrations Electricity and Magnetism Engineering Economics Ethics and Professional Practice Fluid Mechanics Heat Transfer Material Properties and Processing Mathematics Materials Measurement Instrumentation and Controls Mechanical Design and Analysis Mechanics of Materials Probability and Statistics Statics Thermodynamics **EIT Industrial Review** Donovan Young, 2003-09-18 This guide is written for the afternoon FE EIT Industrial Exam and reviews each topic with numerous example problems and complete step by step solutions End of chapter problems with solutions and a complete sample exam with solutions are provided Topics covered Production Planning and Scheduling Engineering Economics Engineering Statistics Statistical Quality Control Manufacturing Processes Mathematical Optimization and Modeling Simulation Facility Design and Location Work Performance and Methods Manufacturing Systems Design Industrial Ergonomics Industrial Cost Analysis Material Handling System Design Total Quality Management Computer Computations and Modeling Queuing Theory and Modeling Design of Industrial Experiments Industrial Management Information System Design Productivity Measurement and Management 101 problems with complete solutions SI Units *Chemical Engineering License Problems and Solutions* Dilip K. Das, Rajaram K. Prabhudesai, 2003-09-18 This is a review book for people planning to take the PE exam in Chemical Engineering Prepared specifically for the exam used in all 50 states It features 188 new PE problems with detailed step by step solutions The book covers all topics on the exam and includes easy to use tables charts and formulas It is an ideal desk Companion to DAS s Chemical Engineer License Review It includes sixteen chapters and a short PE sample exam as well as complete references and an index Chapters include the following topical areas material and energy balances fluid dynamics heat transfer evaporation distillation absorption leaching liq liq extraction psychrometry and humidification drying filtration thermodynamics chemical kinetics process control mass transfer and plant safety The ideal study guide this book brings all elements of professional problem solving together in one BIG BOOK Ideal desk reference Answers hundreds of the most frequently asked questions The first truly practical no nonsense problems and solution book for the difficult PE exam Full step by step solutions are included **FE Review Manual** Michael

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