

Chapter 1

Performance Task (continued)

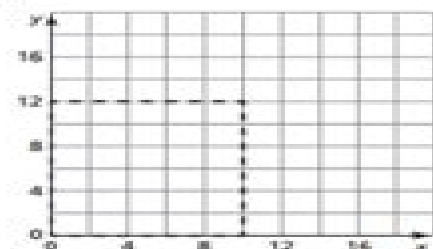
Comfortable Horse Stalls

The plan for a new barn includes standard, rectangular horse stalls. The architect is sure that this will provide the most comfort for your horse because it is the greatest area for the stall. Is that correct? How can you investigate to find out?

The budget for your new barn allows for a horse stall with a total perimeter of 44 feet. The stall in the current plans is 10-foot by 12-foot, an industry standard.

1. a. Explore the options for the dimensions of the stall by completing the table. Then sketch each stall on the coordinate plane as shown for the 10-foot by 12-foot stall.

Length (in feet)	Width (in feet)	Perimeter	Area
5			
6			
7			
8			
9			
10	12	44	
11			
12			



- b. From your table, does a 10-foot by 12-foot stall provide the most area? If not, which size stall does?
2. Now investigate this problem algebraically and graphically.
 - a. Write an equation for A , the area of the stall, in terms of length ℓ and width w .
 - b. Write an equation for the perimeter of the stall in terms of length ℓ and width w , given that the perimeter is 44 feet.
 - c. Solve the perimeter equation for length ℓ .
 - d. Substitute the expression for length found in part (b) into your equation for area found in part (a). Write your new equation $A(w)$.
 - e. Use a graphing calculator to graph the area function $A(w)$ changing the viewing window until you see the maximum of the function. Explain what the function represents in terms of the domain and range.
 - f. Using the *maximum* feature on your calculator, what is the maximum area? What dimensions correspond to this area? Does this agree with your table?
3. What rectangular shape has the largest area for a fixed perimeter? Why might barn owners choose to build standard 10-foot by 12-foot barn stalls instead of stalls in this shape?

Performance Tasks Chapter 4 Geometry Answer

Randy Shih, Paul Schilling



Performance Tasks Chapter 4 Geometry Answer:

Assessing Performance Robert L. Johnson, James A. Penny, Belita Gordon, 2008-10-10 A comprehensive resource for assessment practitioners this book provides step by step guidance for developing administering scoring and validating a range of performance tasks including literacy and other types of proficiency assessments The authors explore how to establish the purpose of the assessment and how to develop scoring tools train raters reduce rater bias review scores and report results and use item level and test level analyses to optimize reliability and validity Clearly written and well organized the book includes many practical examples and accessible explanations of concepts and statistical procedures It encompasses the breadth of applications of performance assessment today from educational testing and the credentialing of professionals to research and program evaluation User friendly features include Checklists of activities to complete at each stage of a performance assessment End of chapter questions to facilitate self study Annotated suggestions for further reading A quick reference glossary of terms Examples drawn from multiple educational and professional licensure contexts

Geometric Tolerances Bianca M. Colosimo, Nicola Senin, 2010-11-01 Geometric tolerances are changing the way we design and manufacture industrial products Geometric Tolerances covers their impact on the world of design and production highlighting new perspectives possibilities current issues and future challenges The topics covered are designed to be relevant to readers from a variety of backgrounds ranging from product designers and manufacturers to quality inspection engineers and quality engineers involved in statistical process monitoring Areas included are selection of appropriate geometric tolerances and how they stack up in assembled products inspection of parts subjected to geometric tolerancing from the macro to the micro and sub micro scales and enhancement of efficiency and efficacy of quality monitoring Geometric Tolerances provides the reader with the most recent scientific research in the field as well as with a significant amount of real life industrial case studies delivering a multidisciplinary synoptic view of one of the hottest and most strategic topics in industrial production

Parametric Modeling with SolidWorks 2014 Paul Schilling, Randy Shih, 2014 Parametric Modeling with SolidWorks 2014 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2014 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2014 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SolidWorks 2014 including how to use the SolidWorks Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SolidWorks Associate CSWA Examination Reference guides located at

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due to the continuous nature of analog signals which causes analog circuit performance to be very sensitive to layout parasitics. The parasitic elements associated with interconnect wires cause loading and coupling effects that degrade the frequency behaviour and the noise performance of analog circuits. Device mismatch and thermal effects put a fundamental limit on the achievable accuracy of circuits. For successful automation of analog layout, advanced place and route tools that can handle these critical parasitics are required. In the past, automatic analog layout tools tried to optimize the layout without quantifying the performance degradation introduced by layout parasitics. Therefore, it was not guaranteed that the resulting layout met the specifications and one or more layout iterations could be needed. In *Analog Layout Generation for Performance and Manufacturability*, the authors propose a performance driven layout strategy to overcome this problem. In this methodology, the layout tools are driven by performance constraints such that the final layout with parasitic effects still satisfies the specifications of the circuit. The performance degradation associated with an intermediate layout solution is evaluated at runtime using predetermined sensitivities. In contrast with other performance driven layout methodologies, the tools proposed in this book operate directly on the performance constraints without an intermediate parasitic constraint generation step. This approach makes a complete and sensible trade off between the different layout alternatives possible at runtime and therefore eliminates the possible feedback route between constraint derivation, placement and layout extraction. Besides its influence on the performance layout, it also has a profound impact on the yield and testability of an analog circuit. In *Analog Layout Generation for Performance and Manufacturability*, the authors outline a new criterion to quantify the detectability of a fault and combine this with a yield model to evaluate the testability of an integrated circuit layout. They then integrate this technique with their performance driven routing algorithm to produce layouts that have optimal manufacturability while still meeting their performance specifications. *Analog Layout Generation for Performance and Manufacturability* will be of interest to analog engineers, researchers and students. **Scott Foresman-Addison Wesley**

Middle School Math, 2002 **Parametric Modeling with SOLIDWORKS 2022** Randy Shih, Paul Schilling, 2022-07
Parametric Modeling with SOLIDWORKS 2022 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2022 solid modeling and parametric modeling techniques and concepts. This book introduces SOLIDWORKS 2022 on a step by step basis, starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis. This book takes a hands on, exercise intensive approach to all the important parametric modeling techniques and concepts. Each lesson introduces a new set of commands and concepts building on previous lessons. The lessons guide the user from constructing basic shapes to building intelligent solid models, assemblies and creating multi view drawings. This book also covers some of the more advanced features of SOLIDWORKS 2022, including how to use the SOLIDWORKS Design Library, basic motion analysis, collision detection and analysis with SimulationXpress. The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination.

Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs Parametric Modeling with SOLIDWORKS 2023 Paul Schilling,Randy Shih,2023-05 Teaches you SOLIDWORKS 2023 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2023 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2023 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2023 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SOLIDWORKS 2023 including how to use the SOLIDWORKS Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SOLIDWORKS Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered This book also introduces you to the general principles of 3D printing including a brief history of 3D printing the types of 3D printing technologies commonly used filaments and the basic procedure for printing a 3D model 3D printing makes it easier than ever for anyone to start turning their designs into physical objects and by the end of this book you will be ready to start printing out your own designs **Parametric Modeling with SOLIDWORKS 2025** Paul J. Schilling,Randy H. Shih, Teaches you SOLIDWORKS 2025 and parametric modeling with hands on tutorials Also covers sheet metal SimulationXpress basic motion analysis collision detection and more Prepares you to take the Certified SOLIDWORKS Associate Exam Includes a chapter introducing you to 3D printing Parametric Modeling with SOLIDWORKS 2025 contains a series of seventeen tutorial style lessons designed to introduce SOLIDWORKS 2025 solid modeling and parametric modeling techniques and concepts This book introduces SOLIDWORKS 2025 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important parametric modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of

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Modeling With Solidworks 2010 Randy H. Shih,2010 Parametric Modeling with SolidWorks 2010 contains a series of fifteen tutorial style lessons designed to introduce SolidWorks 2010 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2010 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This book also covers some of the more advanced features of SolidWorks 2010 including how to use the SolidWorks Design Library basic motion analysis collision detection and analysis with SimulationXpress The exercises in this book cover the performance tasks that are included on the Certified SolidWorks Associate CSWA Examination Reference guides located at the front of the book and in each chapter show where these performance tasks are covered **Parametric Modeling with SolidWorks 2012** Randy Shih,Paul Schilling,2012-03-22 Parametric Modeling with SolidWorks 2012 contains a series of sixteen tutorial style lessons designed to introduce SolidWorks 2012 solid modeling and parametric modeling techniques and concepts This book introduces SolidWorks 2012 on a step by step basis starting with constructing basic shapes all the way through to the creation of assembly drawings and motion analysis This book takes a hands on exercise intensive approach to all the important Parametric Modeling techniques and concepts Each lesson introduces a new set of commands and concepts building on previous lessons The lessons guide the user from constructing basic shapes to building intelligent solid models assemblies and creating multi view drawings This

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Assessment of Authentic Performance in School Mathematics Richard A. Lesh, Susan J. Lamon, 2013-04-03 This book is the result of a conference sponsored by the Educational Testing Service and the University of Wisconsin's National Center for Research in Mathematical Sciences Education The purpose of the conference was to facilitate the work of a group of scholars whose interests included the assessment of higher order understandings and processes in foundation level pre high school mathematics Discussions focused on such issues as the purposes of assessment guidelines for producing and scoring real life assessment activities and the meanings of such terms as deeper and higher order understanding cognitive objectives and authentic mathematical activities Assessment was viewed

as a critical component of complex dynamic and continually adapting educational systems During the time that the chapters in this book were being written sweeping changes in mathematics education were being initiated in response to powerful recent advances in technology cognitive psychology and mathematics as well as to numerous public demands for educational reform These changes have already resulted in significant reappraisals of what it means to understand mathematics of the nature of mathematics teaching and learning and of the real life situations in which mathematics is useful The challenge was to pursue assessment related initiatives that are systematically valid in the sense that they work to complement and enhance other improvements in the educational system rather than act as an impediment to badly needed curriculum reforms To address these issues most chapters in this book focus on clarifying and articulating the goals of assessment and instruction and they stress the content of assessment above its mode of delivery Computer or portfolio based assessments are interpreted as means to ends not as ends in themselves Assessment is conceived as an ongoing documentation process seamless with instruction whose quality hinges upon its ability to provide complete and appropriate information as needed to inform priorities in instructional decision making This book tackles some of the most complicated issues related to assessment and it offers fresh perspectives from leaders in the field with the hope that the ultimate consumer in the instruction assessment enterprise the individual student will reclaim his or her potential for self directed mathematics learning

Influence of Material and Geometry on the Performance of Superconducting Nanowire Single-Photon Detectors Henrich, Dagmar, 2014-07-28 Superconducting Nanowire Single Photon Detectors offer the capability to detect electromagnetic waves on a single photon level in a wavelength range that far exceeds that of alternative detector types However above a certain threshold wavelength the efficiency of those detectors decreases strongly leading to a poor performance in the far infrared range Influences on this threshold are studied and approaches for improvement are verified experimentally by measurement of the device performance

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Performance Tasks Chapter 4 Geometry Answer Introduction

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