

12–46.

The a - s graph for a rocket moving along a straight track has been experimentally determined. If the rocket starts at $s = 0$ when $v = 0$, determine its speed when it is at $s = 75$ ft, and 125 ft, respectively. Use Simpson's rule with $n = 100$ to evaluate v at $s = 125$ ft.

SOLUTION

$$0 \leq s < 100$$

$$\int_0^s v \, dv = \int_0^s 5 \, ds$$

$$\frac{1}{2} v^2 = 5s$$

$$v = \sqrt{10s}$$

$$\text{At } s = 75 \text{ ft,} \quad v = \sqrt{750} = 27.4 \text{ ft/s}$$

$$\text{At } s = 100 \text{ ft,} \quad v = 31.623$$

$$v \, dv = a \, ds$$

$$\int_{31.623}^v v \, dv = \int_{100}^{125} [5 + 6(\sqrt{s} - 10)^{3/2}] \, ds$$

$$\frac{1}{2} v^2 \Big|_{31.623}^v = 201.0324$$

$$v = 37.4 \text{ ft/s}$$



Ans.

Ans.

Ans:

$$v \Big|_{s=75 \text{ ft}} = 27.4 \text{ ft/s}$$

$$v \Big|_{s=125 \text{ ft}} = 37.4 \text{ ft/s}$$

Batarseh Solution Manual

Feras A. Batarseh, Ruixin Yang



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Federal Data Science Feras A. Batarseh, Ruixin Yang, 2017-09-21 Federal Data Science serves as a guide for federal software engineers government analysts economists researchers data scientists and engineering managers in deploying data analytics methods to governmental processes Driven by open government 2009 and big data 2012 initiatives federal agencies have a serious need to implement intelligent data management methods share their data and deploy advanced analytics to their processes Using federal data for reactive decision making is not sufficient anymore intelligent data systems allow for proactive activities that lead to benefits such as improved citizen services higher accountability reduced delivery inefficiencies lower costs enhanced national insights and better policy making No other government dedicated work has been found in literature that addresses this broad topic This book provides multiple use cases describes federal data science benefits and fills the gap in this critical and timely area Written and reviewed by academics industry experts and federal analysts the problems and challenges of developing data systems for government agencies is presented by actual developers designers and users of those systems providing a unique and valuable real world perspective Offers a range of data science models engineering tools and federal use cases Provides foundational observations into government data resources and requirements Introduces experiences and examples of data openness from the US and other countries A step by step guide for the conversion of government towards data driven policy making Focuses on presenting data models that work within the constraints of the US government Presents the why the what and the how of injecting AI into federal culture and software systems

Forthcoming Books Rose Arny, 2003 **Modeling and Using Context** Patrick Brézillon, Patrick Blackburn, Richard Dapoigny, 2013-10-23 This book constitutes the proceedings of the 8th International and Interdisciplinary Conference on Modeling and Using Context CONTEXT 2013 held in Annecy France in October November 2013 The 23 full papers and 9 short papers presented were carefully reviewed and selected from numerous submissions In addition the book contains two keynote speeches and 9 poster papers They cover cutting edge results from the wide range of disciplines concerned with context including Cognitive Sciences Linguistics Psychology Computer Science Neuroscience and computer science artificial intelligence logics ubiquitous and pervasive computing context awareness systems and the Social Sciences and Organizational Sciences as well as the Humanities and all application areas including Medicine and Law

Data Democracy Feras A. Batarseh, Ruixin Yang, 2020-01-21 Data Democracy At the Nexus of Artificial Intelligence Software Development and Knowledge Engineering provides a manifesto to data democracy After reading the chapters of this book you are informed and suitably warned You are already part of the data republic and you and all of us need to ensure that our data fall in the right hands Everything you click buy swipe try sell drive or fly is a data point But who owns the data At this point not you You do not even have access to most of it The next best empire of our planet is one who owns and controls the world s best dataset If you consume or create data if you are a citizen of the data republic willingly or grudgingly and if you

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