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82-85. An airplane traveling at 70 m/s lands on a straight runway and has a deceleration described by the graph. Determine the time t' and the distance traveled for it to reach a speed of 5 m/s. Construct the $v-t$ and $s-t$ graphs for this time interval, $0 \leq t \leq t'$.



$v-t$ Graph: For the time interval $0 \leq t < 5$ s, the initial condition is $v = 70$ m/s when $t = 0$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{70 \text{ m/s}}^v dv &= \int_0^t -10 dt \\ v &= (-10t + 70) \text{ m/s} \end{aligned}$$

When $t = 5$ s,

$$v_{5 \text{ s}} = -10(5) + 70 = 20 \text{ m/s}$$

For the time interval $5 \text{ s} < t \leq t'$, the initial condition is $v = 20$ m/s when $t = 5$ s.

$$\begin{aligned} \left(\frac{dv}{dt} \right) &= a \\ \int_{20 \text{ m/s}}^v dv &= \int_5^t -4 dt \\ v &= (-4t + 40) \text{ m/s} \end{aligned}$$

When $v = 5$ m/s,

$$5 = -4t' + 40$$

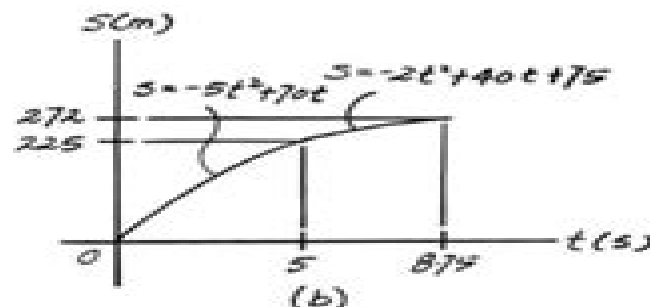
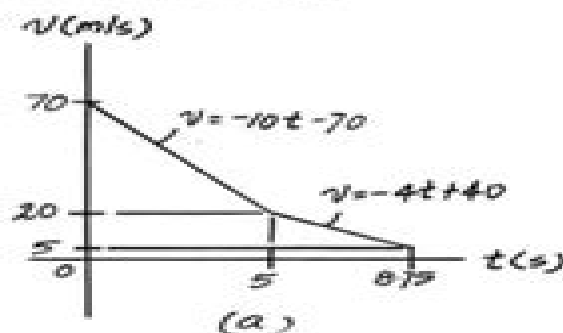
$$t' = 8.75 \text{ s}$$

Ans.

Also, the change in velocity is equal to the area under the $a-t$ graph. Thus,

$$\begin{aligned} \Delta v &= \int a dt \\ 5 - 70 &= -[5(10) + 4(t' - 5)] \\ t' &= 8.75 \text{ s} \end{aligned}$$

The $v-t$ graph is shown in Fig. a.



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Xiaolong Qi



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Engineering Mechanics R. C. Hibbeler, 2010 Text and illustrations on lining papers **700 Solved Problems In Vector Mechanics for Engineers: Dynamics** Joseph F. Shelley, 1991-04 Suitable for 2nd year college and university engineering students this book provides them with a source of problems with solutions in vector mechanics that covers various aspects of the basic course It offers the comprehensive solved problem reference in the subject It also provides the student with the problem solving drill **Principles of Dynamics** R. C. Hibbeler, 2005 For introductory dynamics courses found in mechanical engineering civil engineering aeronautical engineering and engineering mechanics departments This 400 page paperback text contains all the topics and examples of the bestselling hardback text and free access to Hibbeler's OneKey course where instructors select and post assignments All this comes with significant savings for students Hibbeler's course contains over 3 000 Statics and Dynamics problems instructors can personalize and post for student assignments OneKey lets instructors edit the values in a problem guaranteeing a fresh problem for the students and then use MathCAD solutions worksheets to generate solutions for use in grading and post for student review Each problem also comes with optional student hints and an assignment guide PHGradeAssist Hibbeler's PHGradeassist course contains over 600 Statics and Dynamics problems an instructor can use to generate algorithmic homework PHGA grades and tracks student answers and performance and offers sample solutions as feedback Students will also find a complete Activebook cross referenced in hints as well as a set of animations and simulations for use on line Professors will find complete support including Powerpoints JPEGs Active Learning Slides for CRS systems Matlab Mathcad support and student Math Review Of course the Hibbeler Principles book retains all its core features that make it the most student friendly book on the market the most examples 3D photorealistic artwork Procedure for Analysis problem solving boxes triple accuracy checking photographs that teach and a carefully crafted student centered design *800 Solved Problems in Vector Mechanics for Engineers* Joseph F. Shelley, 1990 *Fundamentals of Structural Analysis* Tanmay Shroff, 2025-02-20 Fundamentals of Structural Analysis is a comprehensive guide for engineers architects and students delving into structural engineering We offer a fundamental resource for understanding how structures behave under various loads and conditions The book covers a wide range of topics starting from basic concepts like force stress and strain and progressing to complex subjects such as structural dynamics and stability analysis One key strength lies in our systematic approach to problem solving We introduce different methods for analyzing structures including classical techniques like the method of joints and sections for statically determinate structures and advanced methods such as the matrix stiffness method and finite element analysis for more complex structures By presenting these methods coherently we equip readers with the necessary tools to tackle structural problems in real world engineering projects We emphasize understanding the behavior of different structural elements under various loading conditions covering beams frames trusses and arches The book also incorporates contemporary topics like

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