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Robotics 1. a) Use (2.3) to obtain  $A B R = 2 \ 6 \ 4 \ 1 \ 0 \ 0 \ 0 \ 0 \ 1 \ 0 \ 1 \ 0 \ 3 \ 7 \ 5$  b) Use (2.74) to get  $= 90$  degrees  $= 90$  degrees  $= 90$  degrees 2. a) Use (2.64) to obtain  $A B R = 2 \ 6 \ 4:330 :770 :547:908 \ 418 \ 0396:259 :483 :837 \ 3 \ 7 \ 5$  b) Answer is the same as in (a) according to (2.71) 3. Use (2.19) to obtain the transformation matrices.

## **Chapter 2 Solutions for Introduction to Robotics**

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exercises can be used with the MATLAB Robotics Toolbox2 created by Peter Corke, Principal Research Scientist with CSIRO in Australia. Chapter 1 is an introduction to the field of robotics. It introduces some background material, a few fundamental ideas, and the adopted notation of the book, and it previews the material in the later chapters.

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Homework #4 Solution (Winter 2007/2008) 1. Consider the following RRRR manipulator (image courtesy J. J. Craig): It has the following forward kinematics and rotational Jacobian:  $0 \ 4T = 2 \ 6 \ 6 \ 6 \ 6 \ 4 \ c_{12}c_{34} - \sqrt{2} \ 2s_{12}s_{34} - c_{12}s_{34} - \sqrt{2}s_{12}c_{34} \ \sqrt{2}s_{12} \ \sqrt{2}c_{12}c_3 - s_{12}(s_3 - 1) + c_1 \ s_{12}c_{34} + \sqrt{2} \ 2c_{12}s_{34}$   
...

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## Homework #4 Solution ...

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5. Let  $B \cdot P1 = B \cdot P0 + 5 B \cdot V0 = [9.5 \ 1.00 - 1.50]T$ . The object's position in  $\{A\}$  is  $T B A P1 = A B T P1 = [-4.89 \ 2.11 \ 3.60]$
6.  $(2.1) R = \text{rot}(\hat{Y}, \varphi) \text{rot}(\hat{Z}, \theta) \begin{matrix} c\varphi & 0 & s\varphi \\ 0 & 1 & 0 \\ 0 & 0 & -s\varphi \end{matrix} \dots$

## Solutions manual for introduction to robotics mechanics ...

This document contains the solution to many of the exercises ( from chapter 2 to chapter 8) proposed in the book Introduction to Robotics. Mechanics and control. Second Edition by John J. Craig. In general, only one solution is presented when the exercise has more than one answer.



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