2-6 Equation (2.3) is obvious. Equation (2.4) follows from

$$R_{z,\theta}R_{z,\phi} = \begin{bmatrix} c_{\theta} & -s_{\theta} & 0 \\ s_{\theta} & c_{\theta} & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} c_{\phi} & -s_{\phi} & 0 \\ s_{\phi} & c_{\phi} & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} c_{\theta}c_{\phi} - s_{\theta}s_{\phi} & -c_{\theta}s_{\phi} - c_{\phi}s_{\theta} & 0 \\ s_{\theta}c_{\phi} + c_{\theta}s_{\phi} & -s_{\theta}s_{\phi} + c_{\theta}c_{\phi} & 0 \\ 0 & 0 & 1 \end{bmatrix}$$

$$= \begin{bmatrix} \cos(\theta + \phi) & -\sin(\theta + \phi) & 0 \\ \sin(\theta + \phi) & \cos(\theta + \phi) & 0 \\ 0 & 0 & 1 \end{bmatrix} = R_{z,\theta+\phi}.$$

Equation (2.5) follows from (2.3) and (2.4) since

$$R_{z,\theta}R_{z,-\theta} = R_{z,\theta-\theta} = R_{z,0} = I.$$

This can also be shown by noticing that

$$R_{z,\theta}^T = R_{z,-\theta}$$
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Joseph Brown Cooke

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Robot Dynamics and Control Spong,1989-05-24 Technical Manual United States. War Department, 1956 Introduction to Modeling and Simulation Mark W. Spong, 2023-02-13 Introduction to Modeling and Simulation An essential introduction to engineering system modeling and simulation from a well trusted source in engineering and education This new introductory level textbook provides thirteen self contained chapters each covering an important topic in engineering systems modeling and simulation The importance of such a topic cannot be overstated modeling and simulation will only increase in importance in the future as computational resources improve and become more powerful and accessible and as systems become more complex This resource is a wonderful mix of practical examples theoretical concepts and experimental sessions that ensure a well rounded education on the topic The topics covered in Introduction to Modeling and Simulation are timeless fundamentals that provide the necessary background for further and more advanced study of one or more of the topics The text includes topics such as linear and nonlinear dynamical systems continuous time and discrete time systems stability theory numerical methods for solution of ODEs PDE models feedback systems optimization regression and more Each chapter provides an introduction to the topic to familiarize students with the core ideas before delving deeper The numerous tools and examples help ensure students engage in active learning acquiring a range of tools for analyzing systems and gaining experience in numerical computation and simulation systems from an author prized for both his writing and his teaching over the course of his over 40 year career Introduction to Modeling and Simulation readers will also find Numerous examples tools and programming tips to help clarify points made throughout the textbook with end of chapter problems to further emphasize the material As systems become more complex a chapter devoted to complex networks including small world and scale free networks a unique advancement for textbooks within modeling and simulation A complementary website that hosts a complete set of lecture slides a solution manual for end of chapter problems MATLAB files and case study exercises Introduction to Modeling and Simulation is aimed at undergraduate and first year graduate engineering students studying systems in diverse avenues within the field electrical mechanical mathematics aerospace bioengineering physics and civil and environmental engineering It may also be of interest to those in mathematical modeling courses as it provides in depth material on MATLAB simulation and contains appendices with brief reviews of linear algebra real analysis and Libamenta Praxeos Medicæ, Or, A Manual of the Practice of Medicine for the Use of Students & Junior probability theory Practitioners Daniel Spillan, 1841 Field Manual for Museums United States. National Park Service, Ned J. Burns, 1941 Technical manual (United States. War Dept.) no. 5, 1941, 1942 AF Manual United States. Department of the Air Force, United States. Air Force, 1953 Annual Report of the Director of the Bureau of Mines to the Secretary of the Interior for the Fiscal Year Ended ... United States. Bureau of Mines, 1926 House Beautiful's Maintenance & Postwar Building Manual .1943 Manual of Medicine for Nurses and Housemothers George Howard Hoxie, 1913 Manual of

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