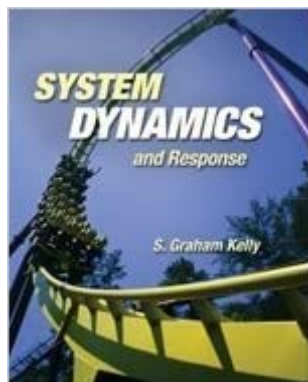


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# System Dynamics And Response



## Synopsis

As engineering systems become more increasingly interdisciplinary, knowledge of both mechanical and electrical systems has become an asset within the field of engineering. All engineers should have general facility with modeling of dynamic systems and determining their response and it is the objective of this book to provide a framework for that understanding. The study material is presented in four distinct parts; the mathematical modeling of dynamic systems, the mathematical solution of the differential equations and integro differential equations obtained during the modeling process, the response of dynamic systems, and an introduction to feedback control systems and their analysis. An Appendix is provided with a short introduction to MATLAB as it is frequently used within the text as a computational tool, a programming tool, and a graphical tool. SIMULINK, a MATLAB based simulation and modeling tool, is discussed in chapters where the development of models use either the transfer function approach or the state-space method.

## Book Information

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## Customer Reviews

Dr. S. Graham Kelly has been a faculty member and administrator at The University of Akron since 1982. He is the author of one textbook in Vibrations, now in its second edition, another text on System Dynamics and Response, and the author of the Schaum's Outline in Mechanical Vibrations. Dr. Kelly has served The University of Akron in its administration as Associate Provost and most recently as Interim Dean of Engineering.

Book is mediocre and difficult to follow. Students be warned.... The solutions manual for this product has numerous errors and teachers have assigned these problems to see who is actually doing the work. Overall this book is probably the best Dynamic Systems book I have gone through.

This book is a waste of paper and space. Shotty organization of material and typos. Hard to learn through with this book.

To be fair, I had Dr. Kelly as a professor, so I could be a bit skewed. The book is easy to follow, and is defiantly an extension of Dr. Kelly's teaching. The book is a great resource to preparing for higher level work.

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