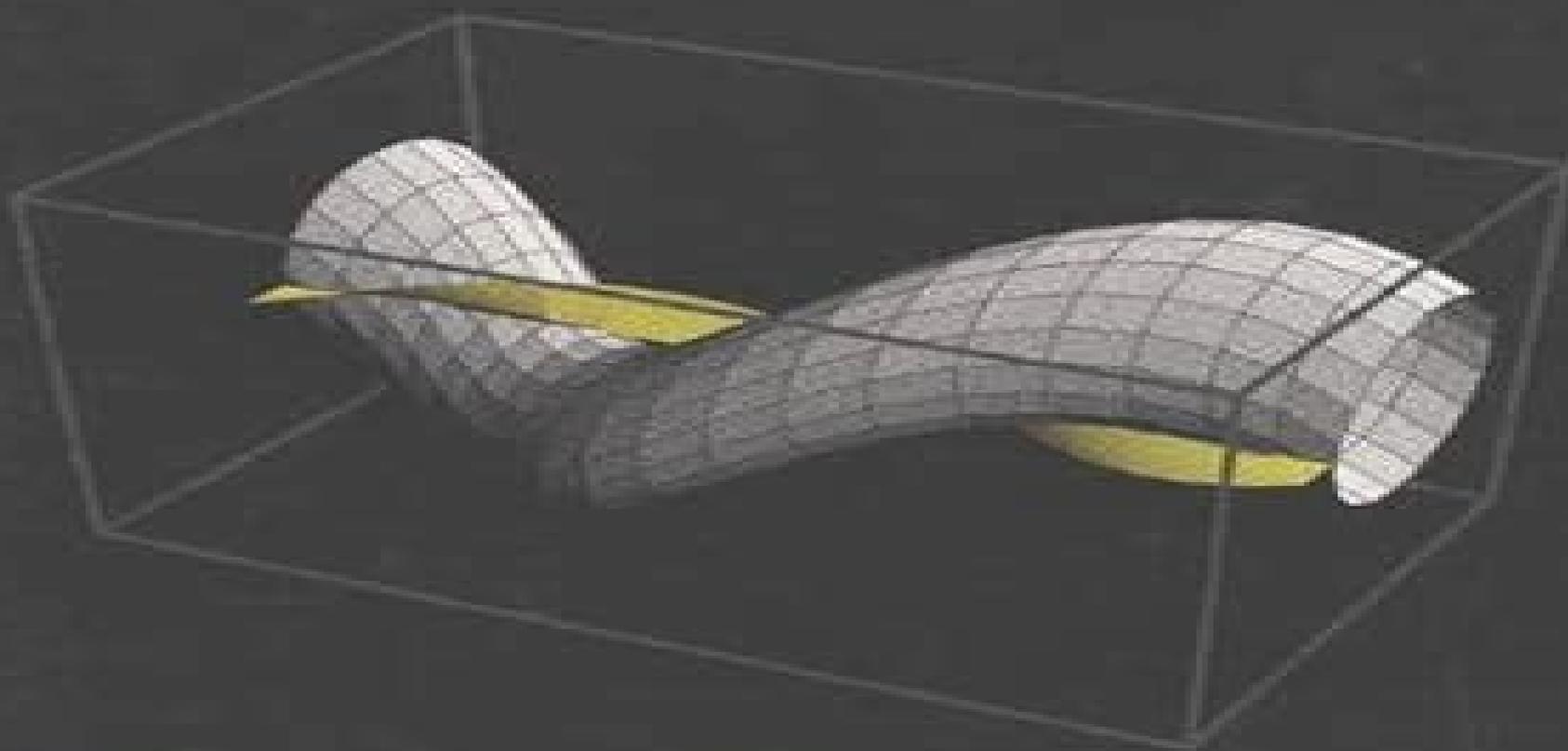


# Classical Control Using $H^\infty$ Methods

Theory, Optimization, and Design



J. William

**Helton**

Orlando

**Merino**

# Classical Control Using Hinfinity Methods Theory Optimization And Design

**M Mark**



## **Classical Control Using H-infinity Methods Theory Optimization And Design:**

*Classical Control Using H-Infinity Methods* J. William Helton, Orlando Merino, 1998-01-01 This versatile book teaches control system design using H Infinity techniques that are simple and compatible with classical control yet powerful enough to quickly allow the solution of physically meaningful problems The authors begin by teaching how to formulate control system design problems as mathematical optimization problems and then discuss the theory and numerics for these optimization problems Their approach is simple and direct and since the book is modular the parts on theory can be read independently of the design parts and vice versa allowing readers to enjoy the book on many levels Until now there has not been a publication suitable for teaching the topic at the undergraduate level This book fills that gap by teaching control system design using H infinity techniques at a level within reach of the typical engineering and mathematics student It also contains a readable account of recent developments and mathematical connections

*Classical Control Using H-Infinity Methods* J. William Helton, Orlando Merino, 1998-01-01 One of the main accomplishments of control in the 1980s was the development of H infinity techniques This book teaches control system design using H infinity methods Students will find this book easy to use because it is conceptually simple They will find it useful because of the widespread appeal of classical frequency domain methods Classical control has always been presented as trial and error applied to specific cases Helton and Merino provide a much more precise approach This has the tremendous advantage of converting an engineering problem to one that can be put directly into a mathematical optimization package After completing this course students will be familiar with how engineering specs are coded as precise mathematical constraints

**Control Theory** James R. Leigh, 2004 This revised edition addresses recent developments in the field of control theory It discusses how the rise of Hoo and similar approaches has allowed a combination of practicality rigour and user interaction to be brought to bear upon complex control problems The book also covers the rise of AI techniques

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