



Telescope Control

Wodek Gawronski



Telescope Control:

Modeling and Control of Antennas and Telescopes Wodek Gawronski, 2008-07-11 Mechanical engineering and engineering discipline born of the needs of the industrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series is a series featuring graduate texts and research monographs intended to address the need for information in contemporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of series editors each an expert in one of the areas of concentration The names of the series editors are listed on page vi of this volume The areas of concentration are applied mechanics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology Preface This book is based on my experience with the control systems of antennas and radiotelescopes Overwhelmingly it is based on experience with the NASA Deep Space Network DSN antennas It includes modeling the antennas developing control algorithms field testing system identification performance evaluation and troubleshooting My previous book emphasized the theoretical aspects of antenna control engineering while this one describes the application part of the antenna control engineering

Robotic telescopes Alberto J. Castro-Tirado, Frederic Victor Hessman, Chenzhou Cui, Bringfried Stecklum, 2023-06-14

Control Engineering and Information Systems Zhijing Liu, 2015-01-19 Control Engineering and Information Systems contains the papers presented at the 2014 International Conference on Control Engineering and Information Systems ICCEIS 2014 Yueyang Hunan China 20-22 June 2014 All major aspects of the theory and applications of control engineering and information systems are addressed including Intelligent systems

Optical Beam Control Brij N. Agrawal, Jae Jun Kim, Sachin Agrawal, 2025-11-19 The authors have designed this timely new book in response to the need for up to date and complete coverage of multi disciplinary basic principles of optical beam control for imaging satellites and laser systems As the uses of imaging satellites and laser systems increase optical beam control for these systems will occupy engineers and scientists for years to come The book introduces space telescopes ground telescopes laser communications and high energy laser systems covering light sources lenses wave optics diffraction and polarization as well as fine pointing control classical control modern control Kalman filters sensors actuators flexible control slew maneuvers and acquisition tracking and pointing The authors have over 30 years experience in research development and testing of complex state of art systems such as 3 meter diameter segmented mirror space telescopes and high energy laser beam control systems As a text and reference dealing with basics of optical beam control this book includes information on Sources of aberrations vibration and jitter optical aberrations air turbulence and measure of optical aberrations Vibration isolation and jitter control active jitter control strap down and inertial stable platform Adaptive optics

wavefront sensors wavefront reconstruction adaptive optics configurations and control systems Imaging satellites telescope design optical train components image aberration and performance analysis Laser beam control hardware laser aberration and laser performance analysis Optical Beam Control is an essential reference for engineers working in imaging satellites and laser systems along with electrical engineers focused on optics satellites lasers and control systems The text is also valuable for students taking courses on laser technology satellite control spacecraft design and optics and photonics ,

Setting-Up a Small Observatory: From Concept to Construction David Arditti,2007-12-20 Arditti s approachable work covers the all the details of design siting and construction once a basic type has been decided upon It is written in a way that is equally applicable to the USA and UK where there are slightly different building regulations and deals with matters that are basic to building and commissioning any amateur observatory Uniquely David Arditti also considers the aesthetics of amateur observatories fitting them in with family and neighbors and maybe disguising them as more common garden buildings if necessary Every amateur astronomer who wants a purpose built observatory and let s face it which one of them doesn t will find this book invaluable

Reference Earth Orbital Research and Applications Investigations

(Bluebook): Astronomy United States. National Aeronautics and Space Administration,1971 **NASA Technical Note**

,1970 Robust Control Engineering Mario Garcia-Sanz,2017-06-26 This book thoroughly covers the fundamentals of the QFT robust control as well as practical control solutions for unstable time delay non minimum phase or distributed parameter systems plants with large model uncertainty high performance specifications nonlinear components multi input multi output characteristics or asymmetric topologies The reader will discover practical applications through a collection of fifty successful real world case studies and projects in which the author has been involved during the last twenty five years including commercial wind turbines wastewater treatment plants power systems satellites with flexible appendages spacecraft large radio telescopes and industrial manufacturing systems Furthermore the book presents problems and projects with the popular QFT Control Toolbox QFTCT for MATLAB which was developed by the author **1992 Shuttle Small Payloads Symposium** Lawrence R. Thomas,Frances L. Mosier,1992

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