Nominal H-infinity Design

Use hinfsyn to compute an H_∞ controller for each value of the blending factor β.

```
ncont = 1; % one control signal, u
nmeas = 2; % two measurement signals, sd and ab
K = ss(zeros(ncont,nmeas));
gamma = zeros(3,1);
for beta=0
    [K(:,:,i),~,gamma(i)] = hinfsyn(qcar(i),:,:),nmeas,ncont);
end

gamma
```

The three controllers achieve closed-loop H_∞ norms of 0.94, 0.97 and 0.99, respectively. Construct the closed-loop models and compare the gains from road disturbance to x_{sd}, x_b for the passive and active suspensions. Observe that all three controllers reduce suspension deflection and body acceleration below the nominal ratio.

Robust Mu Design

So far you have designed H_∞ controllers that meet the performance objectives for the nominal actuator model discussed earlier. The model is only an approximation of the true actuator and you need to make sure that performance is maintained in the face of model errors and uncertainty. This is called robust performance.

Next use μ-synthesis to design a controller that achieves robust performance for the entire family of actuator models. The robust controller is synthesized with the musyn function using the uncertain model qcar for the "balanced" performance $(\beta = 0.5)$.

```
[Krob,rp] = musyn(qcar(:,:),nmeas,ncont);
```

Simulate the nominal response to a road bump with the robust controller Krob. The responses are similar to those obtained with the "balanced" H_∞ controller.

Matlab Robust Control Toolbox Manual

Mario Garcia-Sanz,Constantine H. Houpis

Matlab Robust Control Toolbox Manual:

MATLAB Richard Y. Chiang,Michael G. Safonov,1997 **Robust Control Toolbox for Use with MATLAB** Richard Y. Chiang,1984 **Robust Control** Jürgen Ackermann,2012-12-06 New results fresh ideas and new applications in automotive and flight control systems are presented in this second edition of Robust Control The book presents parametric methods and tools for the simultaneous design of several representative operating conditions and several design specifications in the time and frequency domains It also covers methods for robustness analysis that guarantee the desired properties for all possible values of the plant uncertainty A lot of practical application experience enters into the case studies of driver support systems that avoid skidding and rollover of cars automatic car steering systems flight controllers for unstable aircraft and engine out controllers The book also shows the historic roots of the methods their limitations and research needs in robust control

Robust Control Design with MATLAB® Da-Wei Gu,Petko H. Petkov,Mihail M Konstantinov,2014-07-08 Robust Control Design with MATLAB second edition helps the student to learn how to use well developed advanced robust control design methods in practical cases To this end several realistic control design examples from teaching laboratory experiments such as a two wheeled self balancing robot to complex systems like a flexible link manipulator are given detailed presentation All of these exercises are conducted using MATLAB Robust Control Toolbox 3 Control System Toolbox and Simulink By sharing their experiences in industrial cases with minimum recourse to complicated theories and formulae the authors convey essential ideas and useful insights into robust industrial control systems design using major H infinity optimization and related methods allowing readers quickly to move on with their own challenges The hands on tutorial style of this text rests on an abundance of examples and features for the second edition rewritten and simplified presentation of theoretical and methodological material including original coverage of linear matrix inequalities new Part II forming a tutorial on Robust Control Toolbox 3 fresh design problems including the control of a two rotor dynamic system and end of chapter exercises Electronic supplements to the written text that can be downloaded from extras springer com isbn include M files developed with MATLAB help in understanding the essence of robust control system design portrayed in text based examples MDL files for simulation of open and closed loop systems in Simulink and a solutions manual available free of charge to those adopting Robust Control Design with MATLAB as a textbook for courses Robust Control Design with MATLAB is for graduate students and practising engineers who want to learn how to deal with robust control design problems without spending a lot of time in researching complex theoretical developments *Robust Control Toolbox* Richard Y. Chiang,Michael G. Safonov,1996

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Garcia-Sanz,Constantine H. Houpis,2012-02-02 Presenting the latest developments in the field Wind Energy Systems Control Engineering Design offers a novel take on advanced control engineering design techniques for wind turbine applications The book introduces concurrent quantitative engineering techniques for the design of highly efficient and reliable controllers which can be used to solve the most critical problems of multi megawatt wind energy systems This book is based on the authors experience during the last two decades designing commercial multi megawatt wind turbines and control systems for industry leaders including NASA and the European Space Agency This work is their response to the urgent need for a truly reliable concurrent engineering methodology for the design of advanced control systems Outlining a roadmap for such a coordinated architecture the authors consider the links between all aspects of a multi megawatt wind energy project in which the wind turbine and the control system must be cooperatively designed to achieve an optimized reliable and successful system Look inside for links to a free download of QFTCT a new interactive CAD tool for QFT controller design with MATLAB that the authors developed with the European Space Agency The textbook s big picture insights can help students and practicing engineers control and optimize a wind energy system in which large flexible aerodynamic structures are connected to a demanding variable electrical grid and work automatically under very turbulent and unpredictable environmental conditions The book covers topics including robust QFT control aerodynamics mechanical and electrical dynamic modeling economics reliability and efficiency It also addresses standards certification implementation grid integration and power quality as well as environmental and maintenance issues To reinforce understanding the authors present real examples of experimentation with commercial multi megawatt direct drive wind turbines as well as on shore offshore floating and airborne wind turbine applications They also offer a unique in depth exploration of the quantitative feedback theory QFT a proven successful robust control technique for real world applications as well as advanced switching control techniques that help engineers exceed classical linear limitations   Robust Control Toolbox Richard Y. Chiang,Michael G. Safonov,1996   *European Control Conference 1993* ,1993-06-28 Proceedings of the European Control Conference 1993 Groningen Netherlands June 28 July 1 1993   *Mechatronics and Control of Electromechanical Systems* Sergey Edward Lyshevski,2017-07-14 Due to the enormous impact of mechatronics systems we encounter mechatronics and micromechatronic systems in our daily activities Recent trends and novel technologies in engineering have increased the emphasis on integrated analysis design and control This book examines motion devices actuators motors transducers and sensors power electronics controllers and electronic solutions with the main emphasis placed on high performance mechatronic systems Analysis design optimization control and implementation issues as well as a variety of enabling mechatronic systems and devices are also covered The results extend from the scope of mechatronic systems to the modern hardware software developments utilizing enabling solutions and placing the integrated system perspectives in favor of consistent engineering solutions Mechatronics and Control of Electromechanical Systems facilitates comprehensive studies

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