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Quantitative feedback design of linear and nonlinear control systems, by Oded Yaniv, Kluwer Academic Publishers, Massachusetts, USA, 1999. ISBN 0-7923-8529-2 Article in International Journal of...

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An improvement of the quantitative feedback theory (QFT) (Horowitz 1982) for MIMO systems is presented. The advantages of this approach are as follows, (a) In the 'improved method' the fundamental design relation (for the  $i$ th free function  $l_i$ ) has the form  $|1 + l_i| > \phi(b_{uv}, q_{uv})$  where  $b_{uv}$  are related to the performance tolerances of the closed loop, and  $q_{uv}$  to the plant parameters.

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### **0792385292 - Quantitative Feedback Design of Linear and ...**

In control theory, quantitative feedback  
theory (QFT), developed by Isaac  
Horowitz (Horowitz, 1963; Horowitz and  
Sidi, 1972), is a frequency domain  
technique utilising the Nichols chart (NC)

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in order to achieve a desired robust design over a specified region of plant uncertainty. Desired time-domain responses are translated into frequency domain tolerances, which lead to bounds (or constraints) on the loop transmission function.

## **Quantitative feedback theory - Wikipedia**

QFT is an engineering design theory devoted to the practical design of feedback control systems. The foundation of QFT is that feedback is needed in control only when plant (P), parameter and/or disturbance (D) uncertainties (sets  $\Omega_P = \{P\}$ ,  $\Omega_D = \{D\}$ ) exceed the acceptable (A) system performance uncertainty (set  $\Omega_A = \{A\}$ ). The principal properties of QFT are as follows.

## **Survey of quantitative feedback theory (QFT) - Horowitz ...**

3. How to visualize customer feedback. One of the biggest advantages of



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quantitative customer feedback is that it is really easy to display in a graph form or a pie chart. If you are using a customer feedback tool, you can easily generate reports which will display the trends in your customers' answers.

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Robust Synthesis of Multi-Input Multi-Output (MIMO) feedback systems for Linear-Time-Invariant (LTI) and Non-Linear systems. Main design criteria are bandwidth and control efforts. Main framework for my research is the Quantitative Feedback Theory (QFT).  
Current Projects: Identification of SISO and MIMO plants. Automatic tuning of SISO plants.

### **Oded Yaniv - Home Page**

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parameter and/or disturbance (D) uncertainties (sets  $P := \{P\}$ ,  $D = \{D\}$ ) exceed the acceptable (A) system performance uncertainty (set  $A = \{A\}$ ).

## **Invited paper Survey of quantitative feedback theory (QFT ...**

A Computer-Aided Design Package for Quantitative Feedback Theory. MS Thesis. Wright-Patterson Air Force Base, Ohio: Air Force Institute of Technology. D'Azzo, J. J. and C. H. Houpis (1988). Linear Control System Analysis and Design: Conventional and Modern, Third Edition. New York, New York: McGraw-Hill Book Company, 1988. Gembarowski, C. J ...

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A novel input shaping system, consisting of a quantitative feedback controller, a feed-forward reference model, and a simple zero-vibration (ZV) input shaper, is proposed in this paper. ... Quantitative Feedback Design of Linear and Nonlinear Control Systems, Kluwer Academic Publishers, Norwell, MA. 40. Vyhlídal, T., Kučera, V.

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