Department of **Electrical & Computer Enginee**

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Faculty Publications

Results:

Books   R ¢ O C   *page no ?*

Kemin Zhou, *"Essentials of Robust Control -- Solutions Manual"*, **Prentice Hall, 1998**, 1998
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X. Chen and K. Zhou, *"Fast Parallel Frequency Sweeping Algorithms for Robust D-Stability Margin"*, **IEEE Transactions on Circuit and Systems--Part I**, March 2003
D. U. Campos-Delgado, K. Zhou, D. Allgood, and S. Acharya, *"Active control of combustion instabilities using model based controllers"*, **Combustion Science and Technology vol. 175 (1)**, 2003
X. Chen and K. Zhou, *"Parallel Branch and Bound Algorithm for Computing*

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1. Kemin Zhou, John C. Doyle, and Keith Glover, *Robust and Optimal Control*, Prentice Hall, 1996. (Used worldwide as graduate textbook and research references. It has been cited more than 450 times by SCI papers. A Japanese translation has been published in November of 1997 and a Chinese translation has been published in July 2002.)

2. Kemin Zhou and John Doyle, *Essentials of Robust Control*, Prentice Hall, September 1997.

3. Kemin Zhou, *Essentials of Robust Control – Solutions Manual*, Prentice Hall, 1998.

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1. K. Zhou, "H-Infinity Control," *The Encyclopedia of Electrical and Electronics Engineering*, vol. 9, pp. 94-106, John Wiley & Sons, Inc., 1999.

2. K. Zhou, "Weighted approximation techniques and their applications in controller reduction", *IMA Volumes in Mathematics and its applications: Robust Control Theory*, Vol. 66, B. Francis and P. Khargonekar, eds., pp. 175-204, 1994.

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1. X. Chen, K. Zhou, J. L. Aravena, "Fast construction of robustness degradation function," *SIAM Journal of Control and Optimization*, accepted 2003.

2. X. Chen and K. Zhou, "Parallel Branch and Bound Algorithm for Computing Maximal Structured Singular Value", *IEE Proceedings-Control Theory and Applications*, to appear, 2003.

3. D. U. Campos-Delgado, "$L_1/H_2/H_\infty$ Control Design: Numerical Optimization Approaches" *International Journal of Control*, Accepted in February 2003.

4. D. U. Campos-Delgado, B. B. Schuermans, K. Zhou, C. O. Paschereit, E. Gallestey, and A. Poncet, "Thermoacoustic instabilities: modeling and control," *IEEE Transactions on Control Systems Technology*, Vol. 11, No. 4, July 2003, pp. 429-447.

5. D.U. Campos-Delgado and K. Zhou, "A Parametric Optimization Approach to $\mathcal{H}_\infty$ and $\mathcal{H}_2$ Strong Stabilization," *Automatica*, Vol. 39, No. 7, July 2003, pp. 1205-1211.

6. D. U. Campos-Delgado and K. Zhou, "Reconfigurable Fault Tolerant Control Using GIMC Structure," *IEEE Transactions on Automatic Control*, Vol. 48, No. 5, May 2003, pp. 832-838.

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8. D. U. Campos-Delgado, D. Allgood, and S. Acharya, K. Zhou, "Active control of combustion instabilities using model based controllers," *Combustion Science and Technology*, vol. 175(1), pp.1-27, 2003.