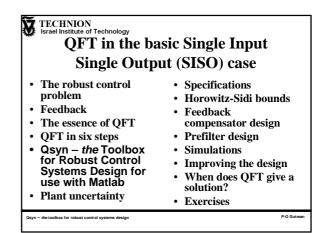
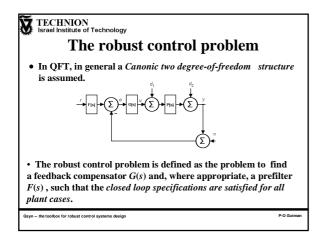
## TECHNION Israel Institute of Technology Robust Control with Classical Methods – QFT

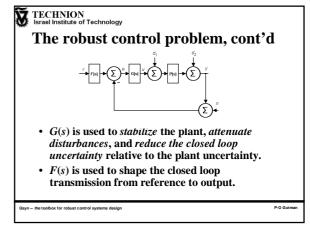
Per-Olof Gutman

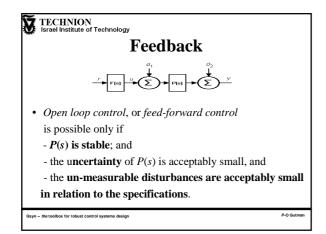
- · Review of the classical Bode-Nichols control problem
- QFT in the basic Single Input Single Output (SISO) case
- Uncertainty and Fundamental Design Limitations
- QFT for non-minimum phase and computer controlled systems
- · QFT for cascaded systems, and for a class of non-linear plants
- QFT for Multi-Input Multi-Output (MIMO) plants
- · A comparison between QFT and other robust and adaptive control

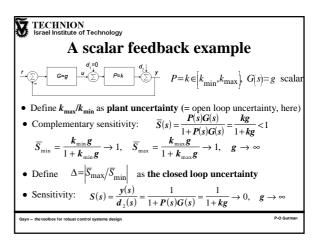
Qsyn - the toolbox for robust control systems design

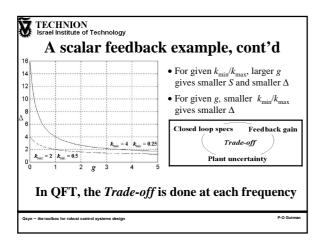


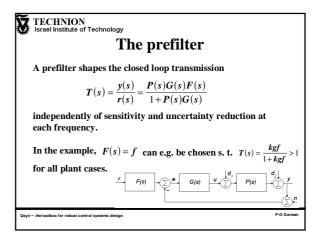


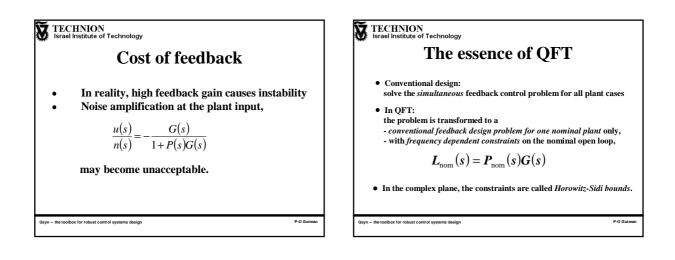


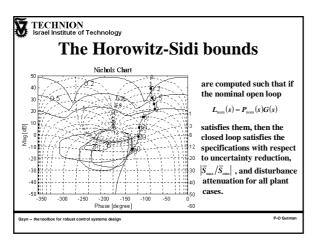


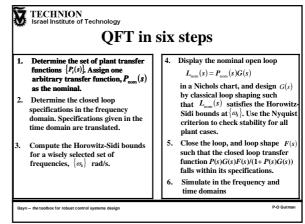


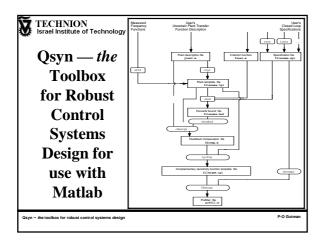


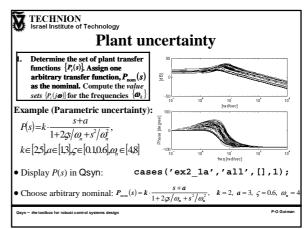


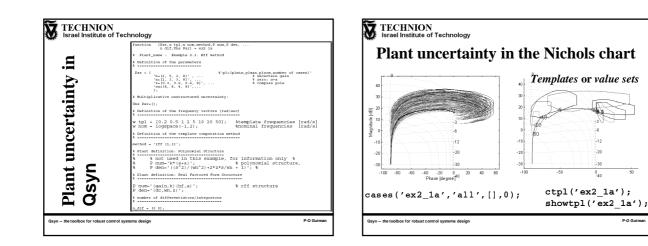


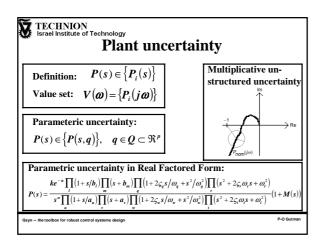


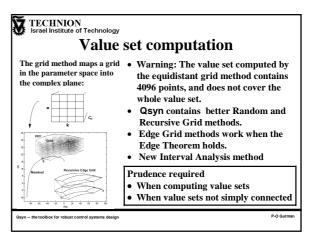


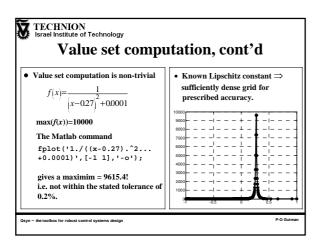


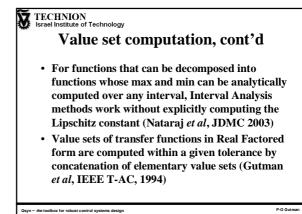


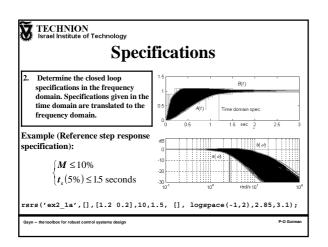


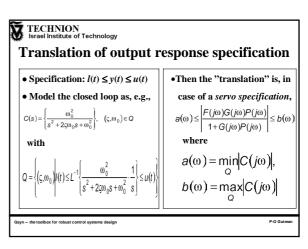


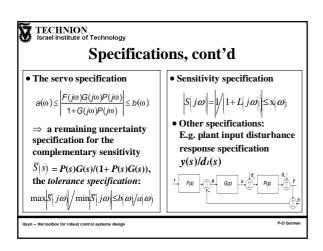


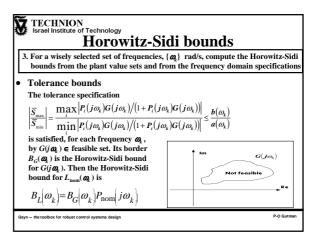


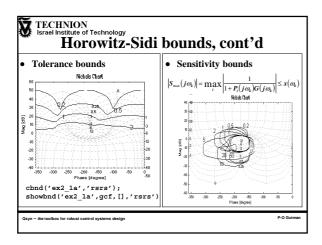


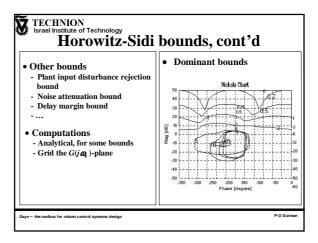


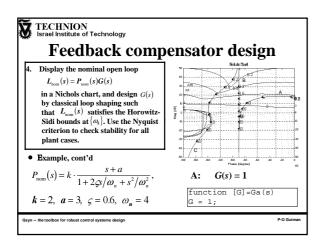


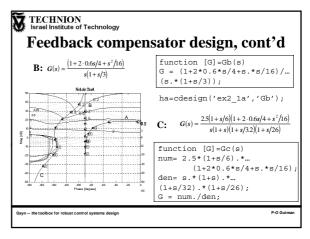


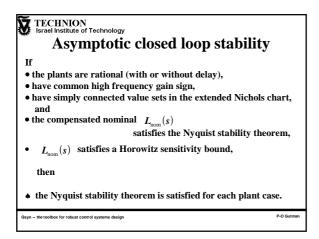


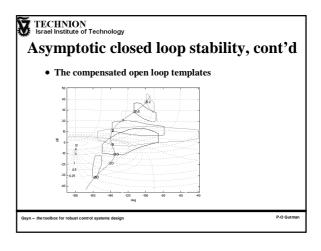


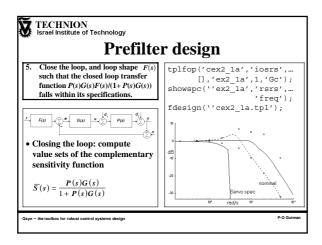


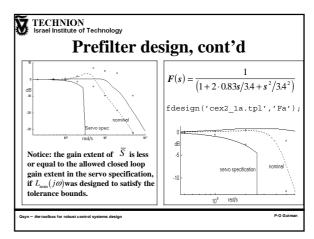


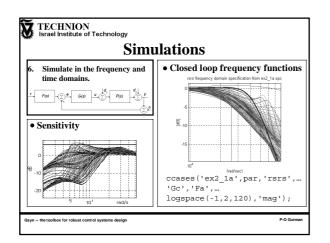


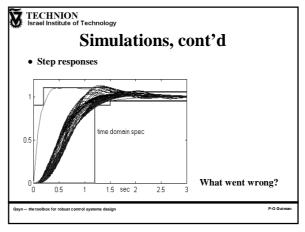


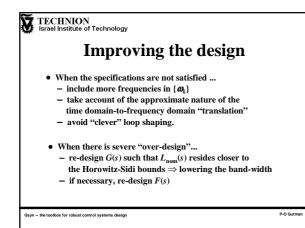














If the minimum phase plants  $P_i(s)$  are such that

- they have common high frequency gain sign,
- $\lim_{s \to \infty} P_i[s] = k_i / s^{d_i}, \ k_i \in [\underline{k}, \overline{k}], \ d_i \in [\underline{d}, \underline{d} + 1, \dots, \overline{d} 1, \overline{d}]$  for all i

then

