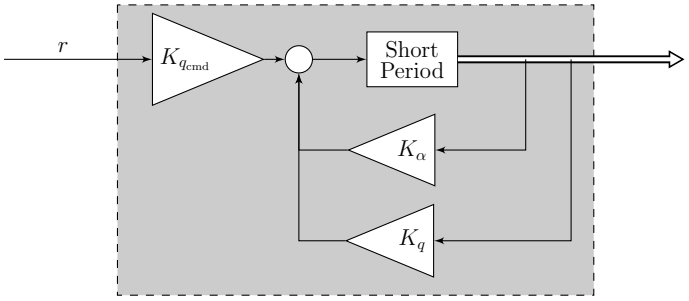
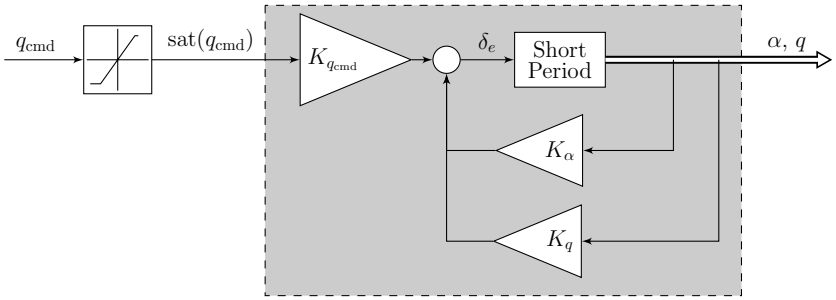
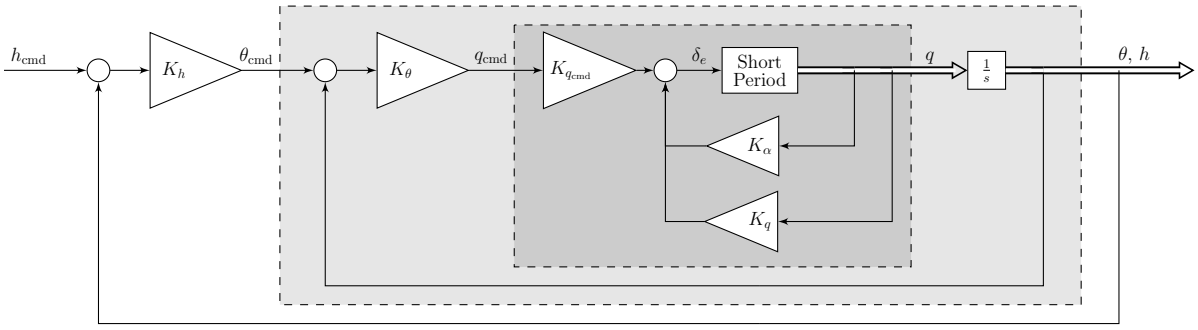
baseline.tex



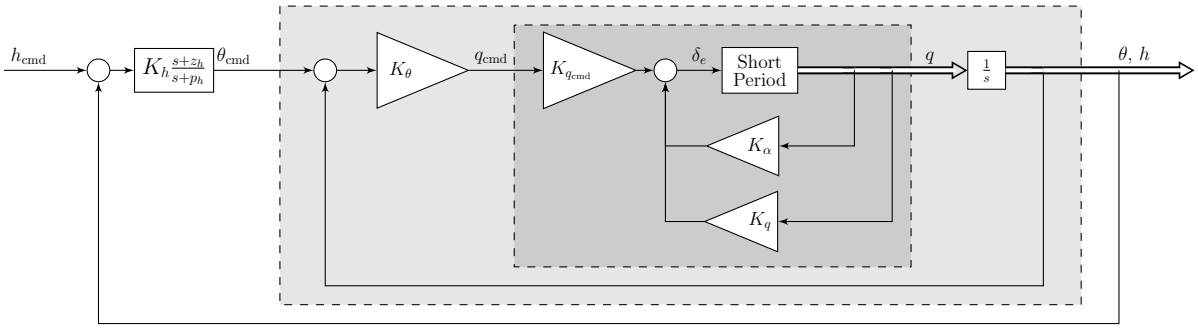
baseline-input-sat.tex



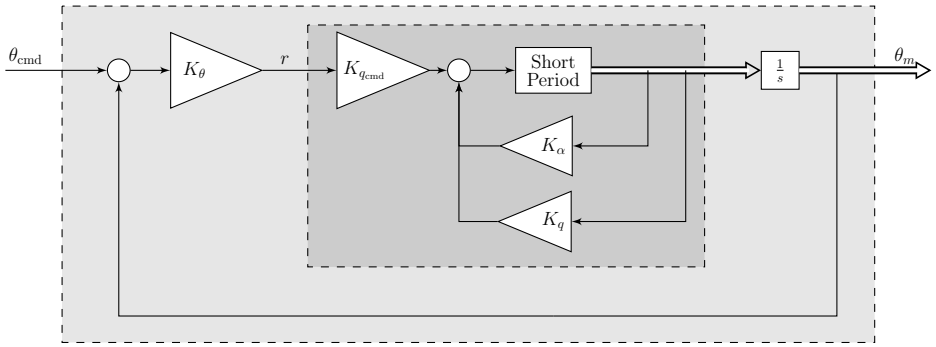
guidance-loop-1.tex



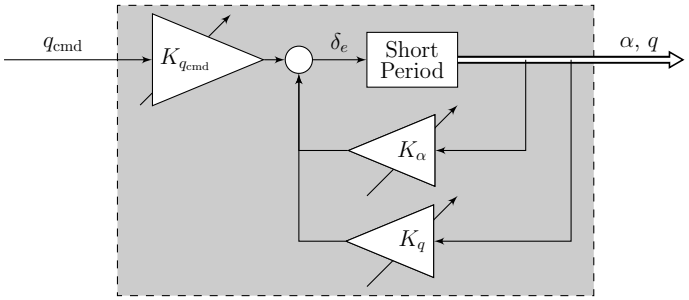
guidance-loop-2.tex



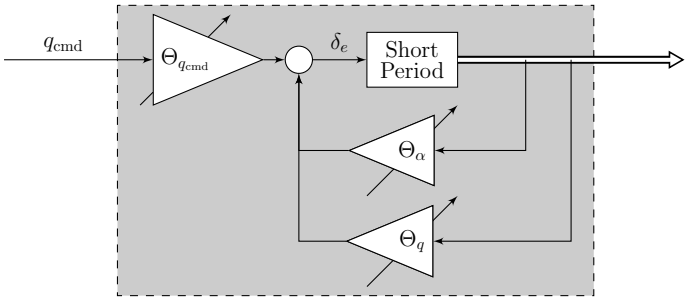
guidance-loop-3.tex



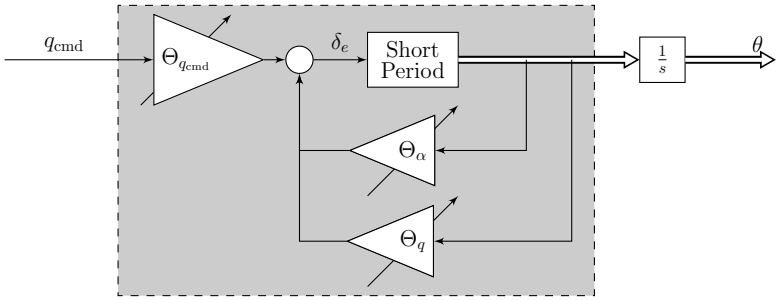
adaptive-1.tex



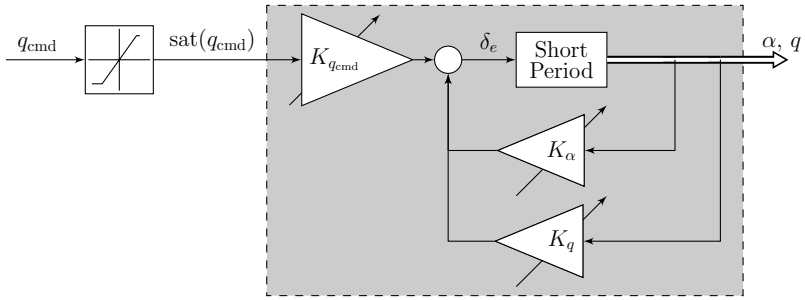
adaptive-2.tex



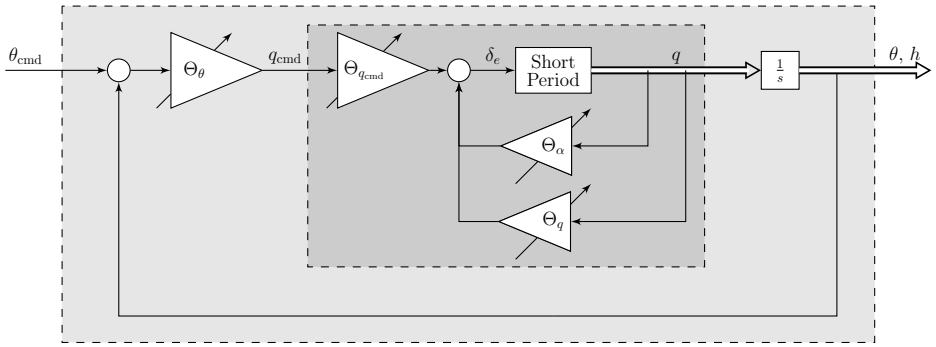
adaptive-3.tex



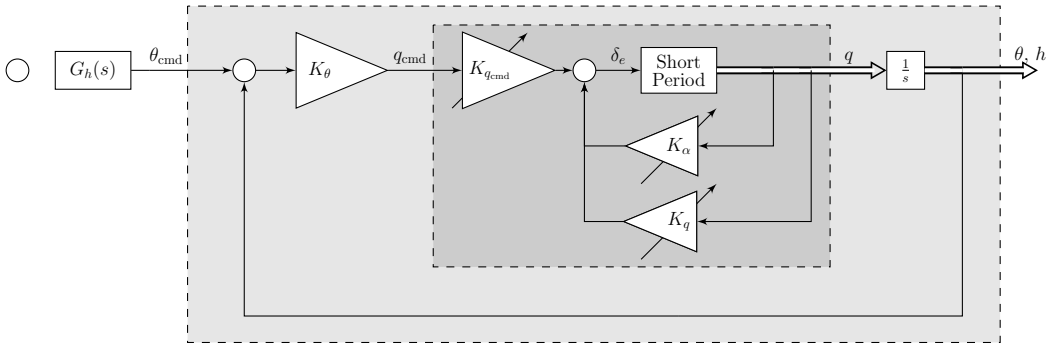
adaptive-4.tex



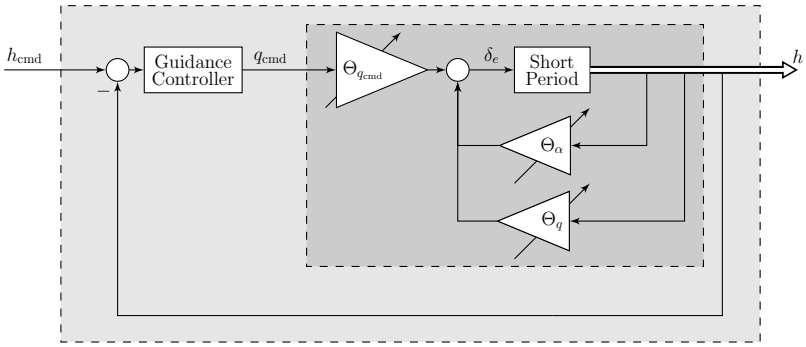
adaptive-5.tex



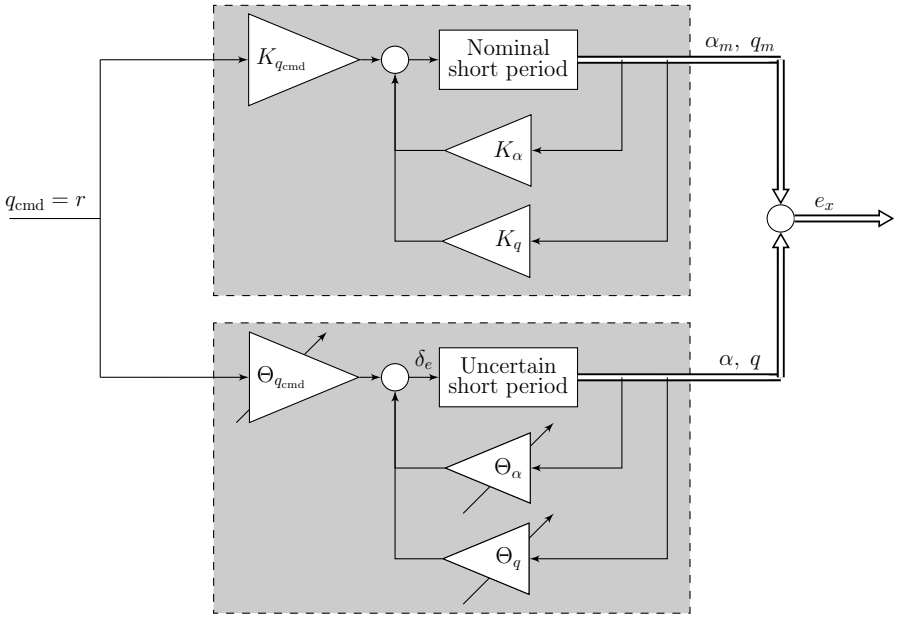
adaptive-6.tex



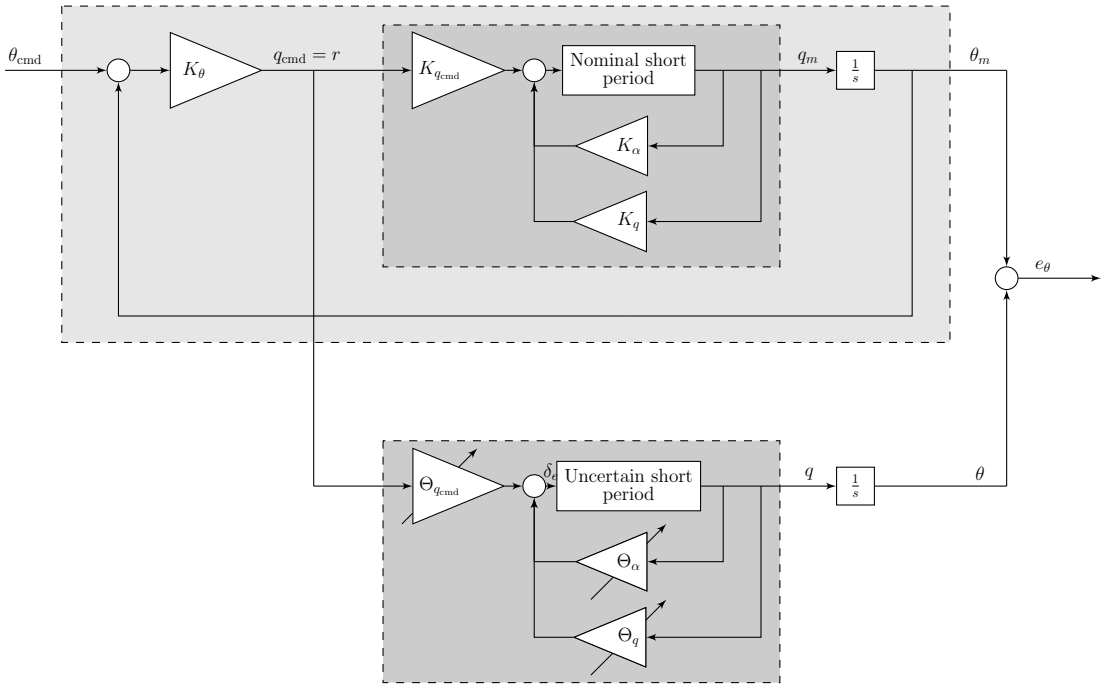
block-001.tex



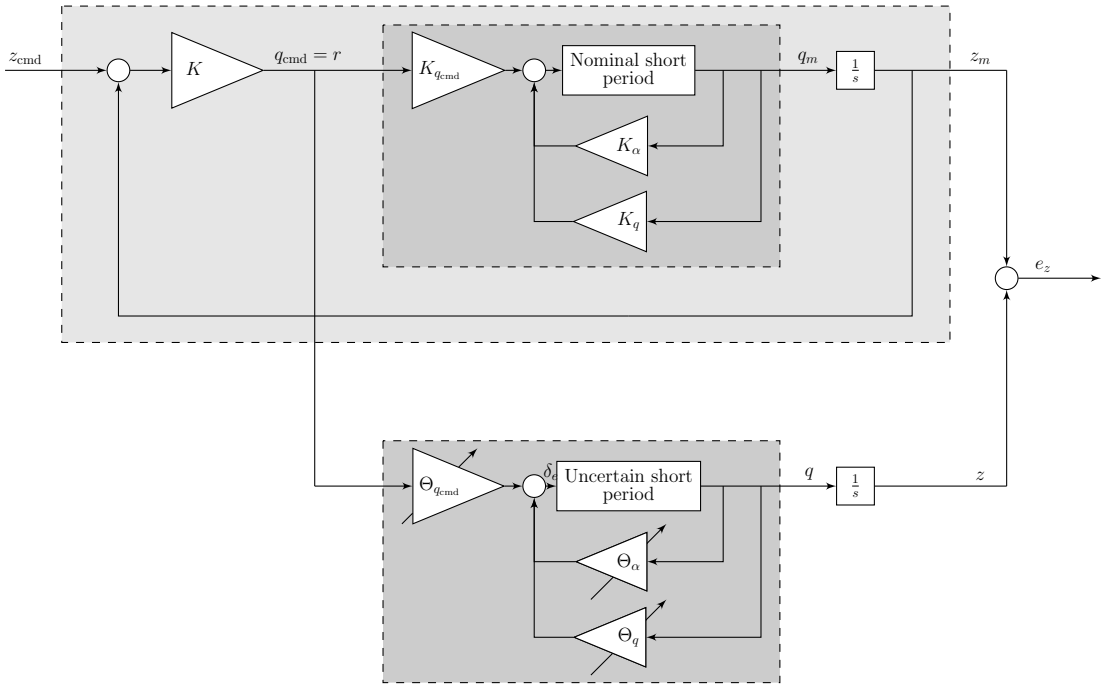
reference-adaptive-1.tex



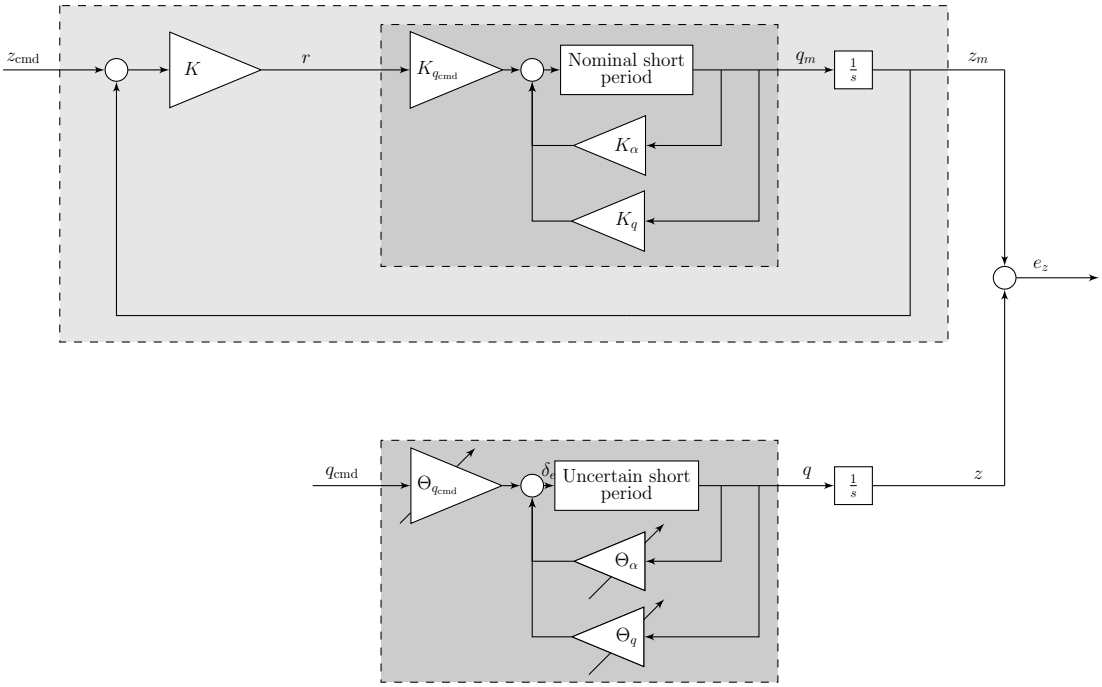
adaptive-pitch-loop-1.tex



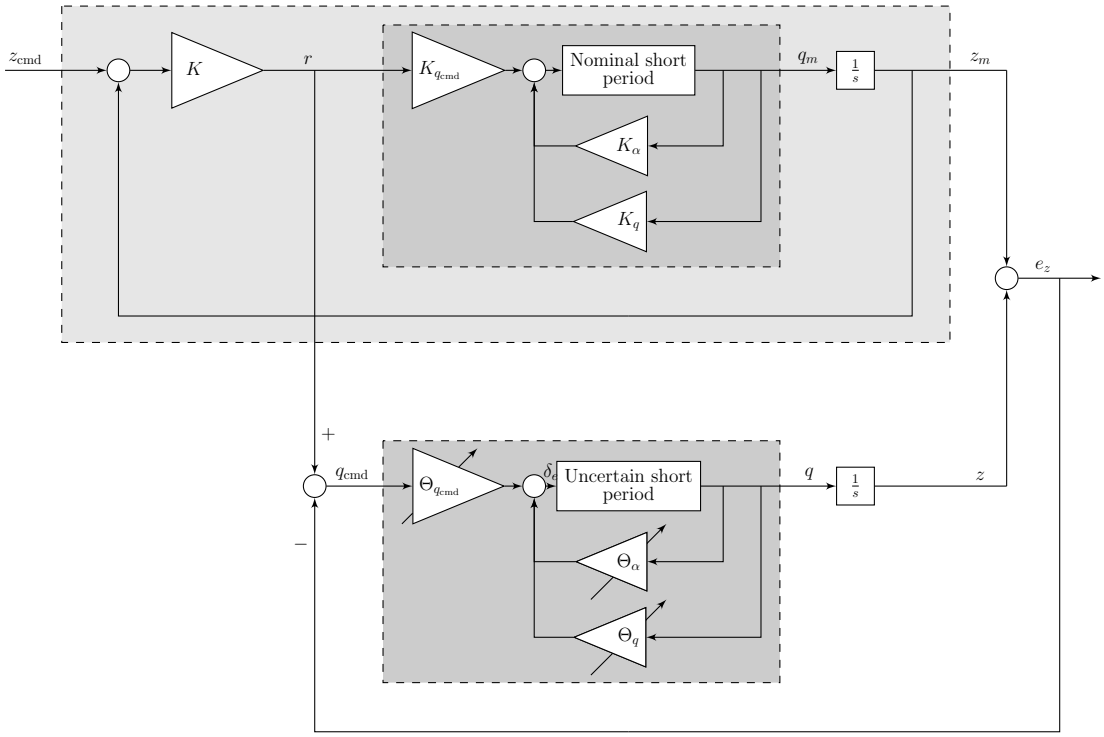
using-z-1.tex


z_{cmd}
K
$q_{\text{cmd}} = r$
$K_{q_{\text{cmd}}}$
Nominal short period
q_m
$\frac{1}{s}$
z_m
K_α
K_q
e_z
$\Theta_{q_{\text{cmd}}}$
δ_e
Uncertain short period
q
$\frac{1}{s}$
z
Θ_α
Θ_q

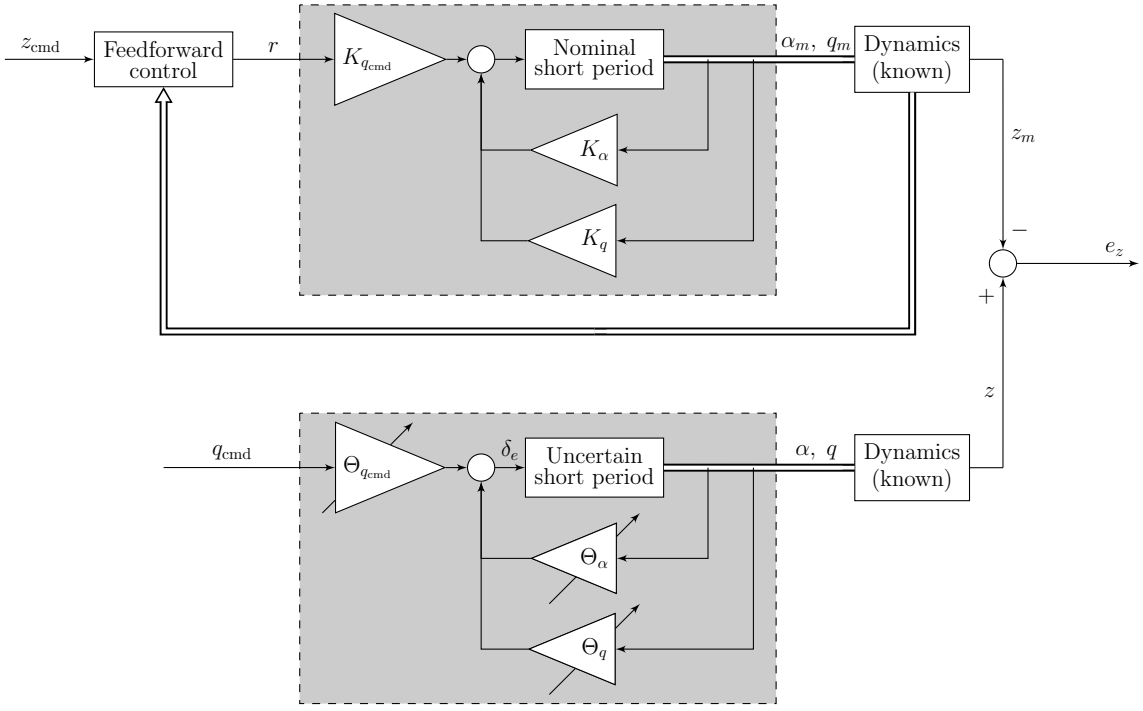
new-structure-1.tex



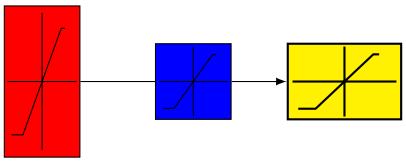
pitch-rate-feedback-1.tex



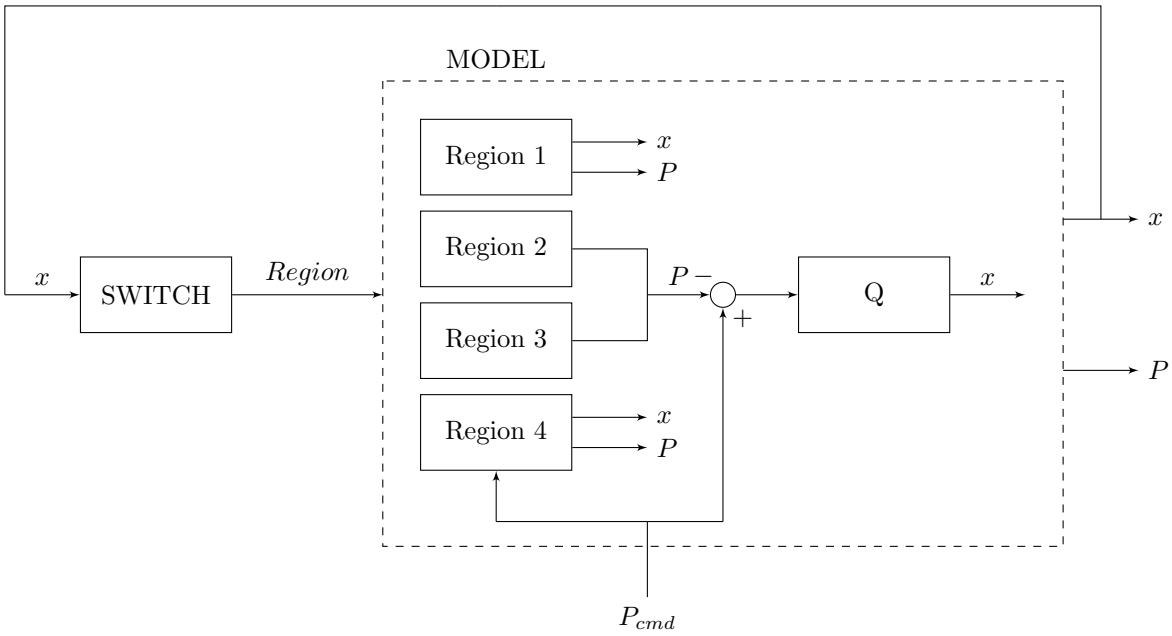
altitude-control-1.tex



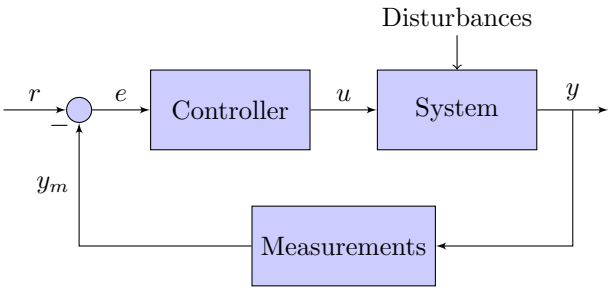
colored-satnode.tex



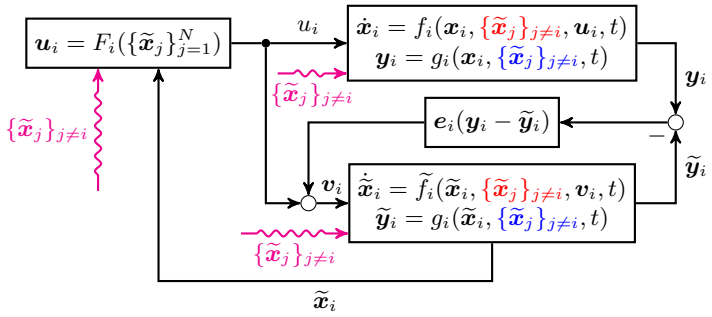
multiblock-1.tex



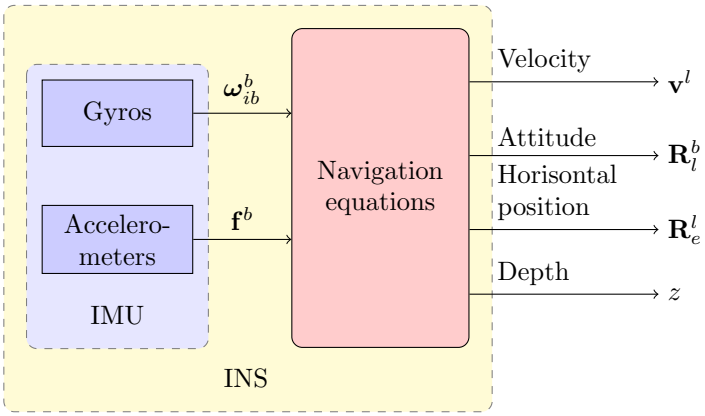
blue-block-1.tex



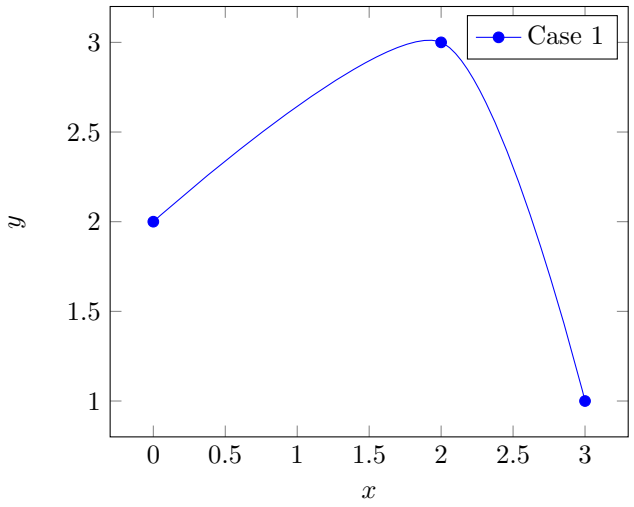
demo-block-1.tex



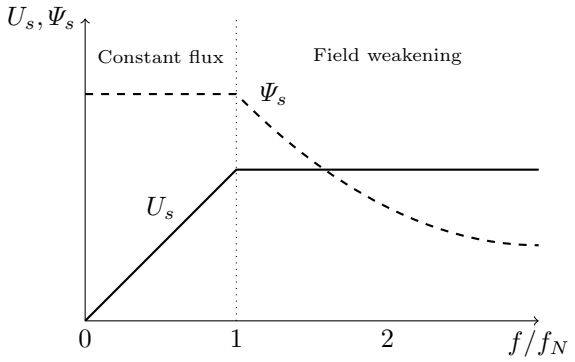
demo-block-2.tex



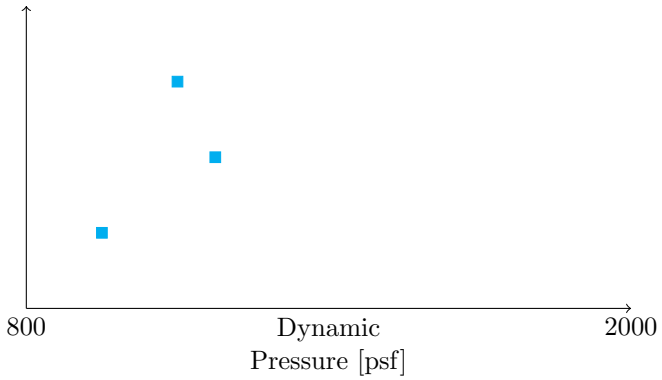
plot-1.tex



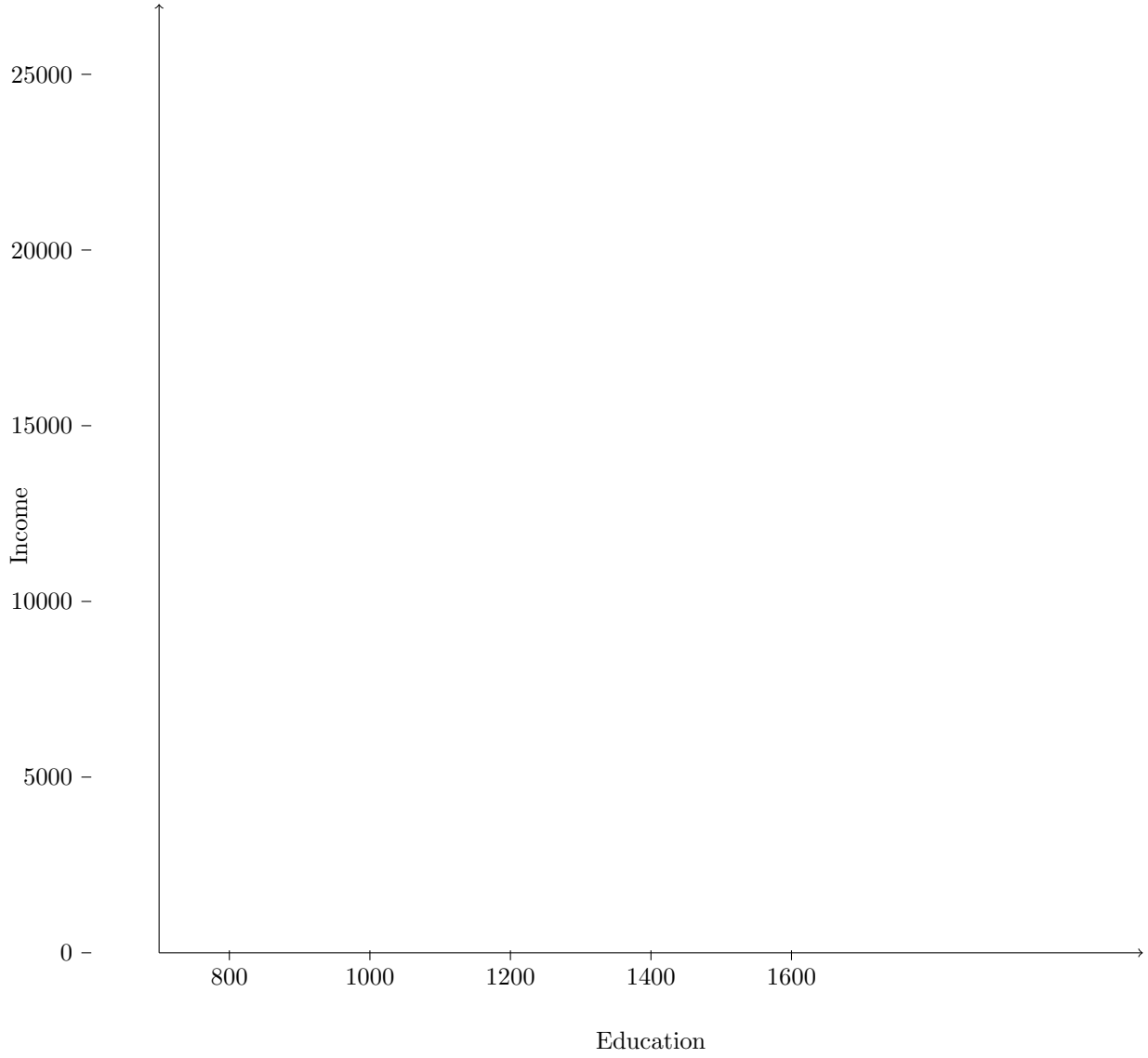
plot-2.tex



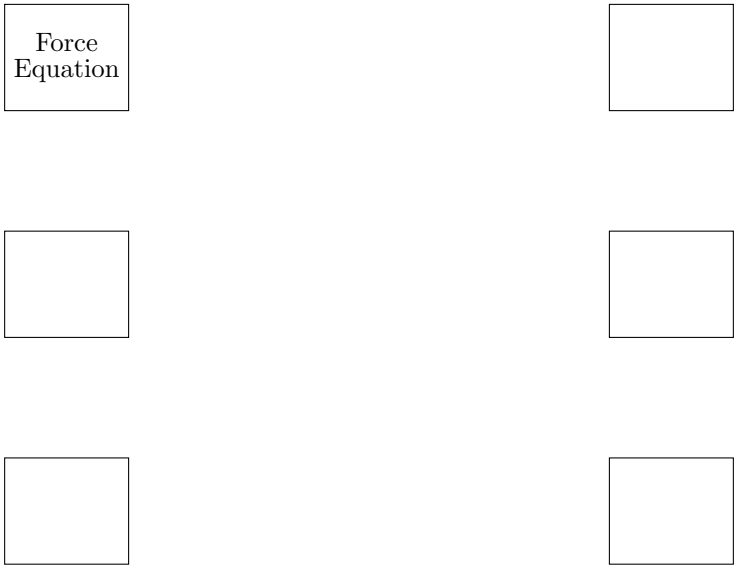
plot-3.tex



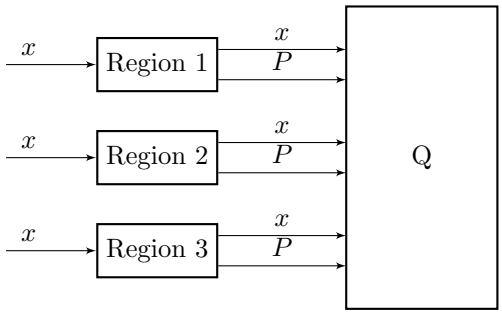
plot-4.tex


25000
20000
15000
10000
5000
0
Income
800
1000
1200
1400
1600
Education

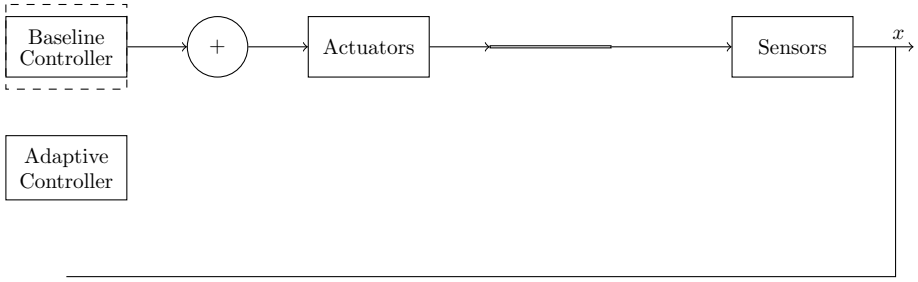
empty-matrix.tex



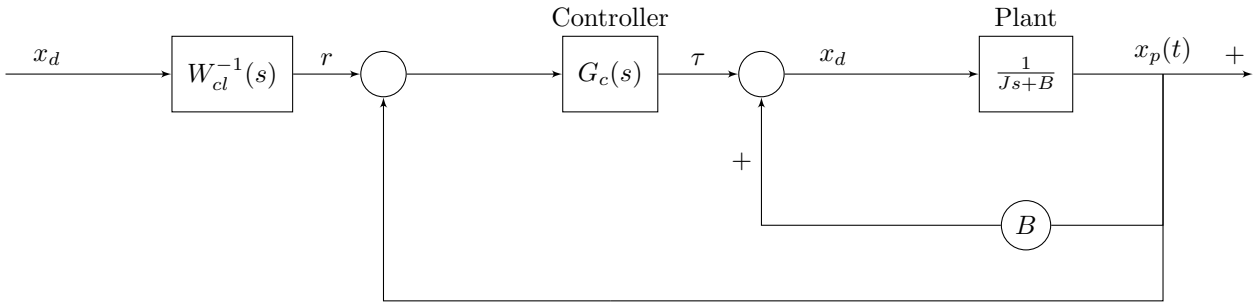
block-002.tex



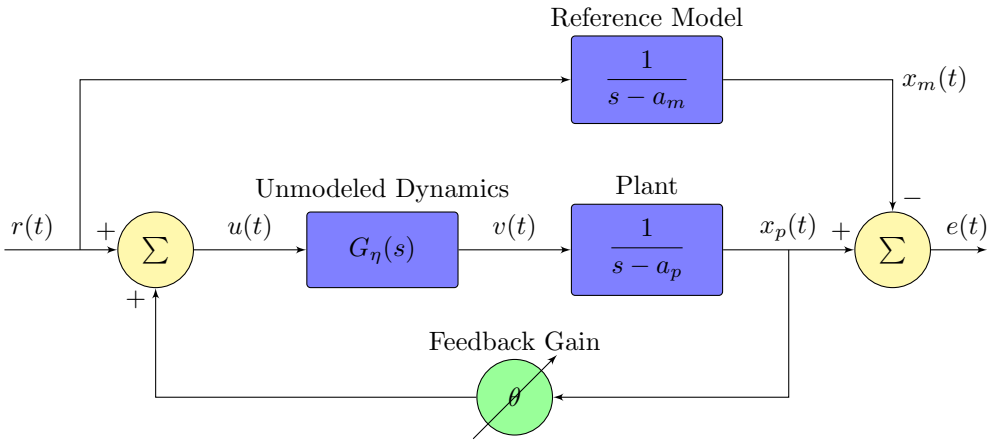
controller-block-1.tex



controller-block-2.tex



controller-block-3.tex



general-mimo-diagram-1.tex

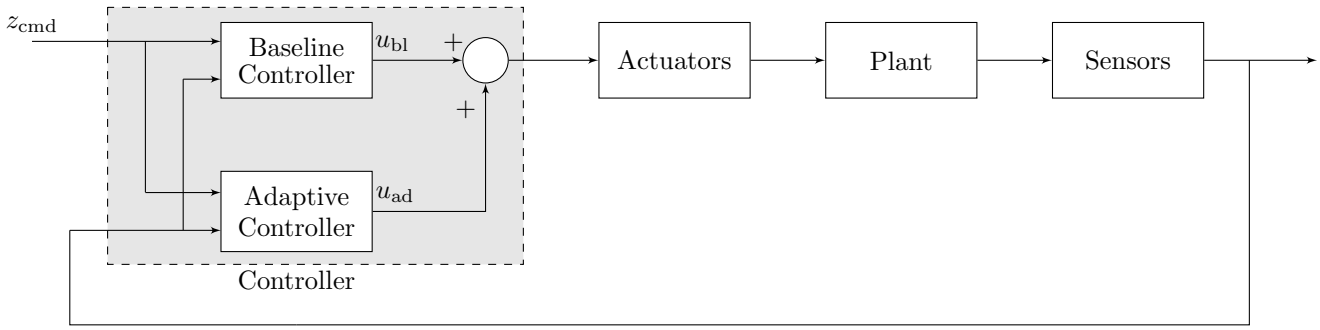


Figure 1: General MIMO feedback control block diagram

baseline-plus-adaptive-1.tex

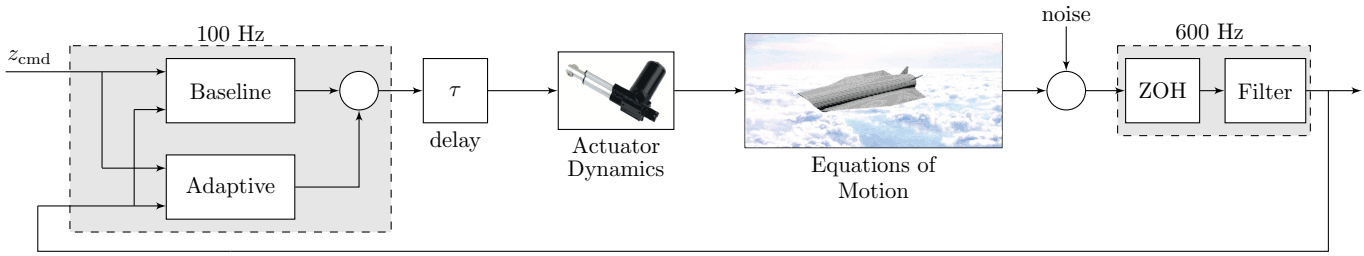


Figure 2: Baseline plus adaptive control block diagram

baseline-plus-adaptive-2.tex

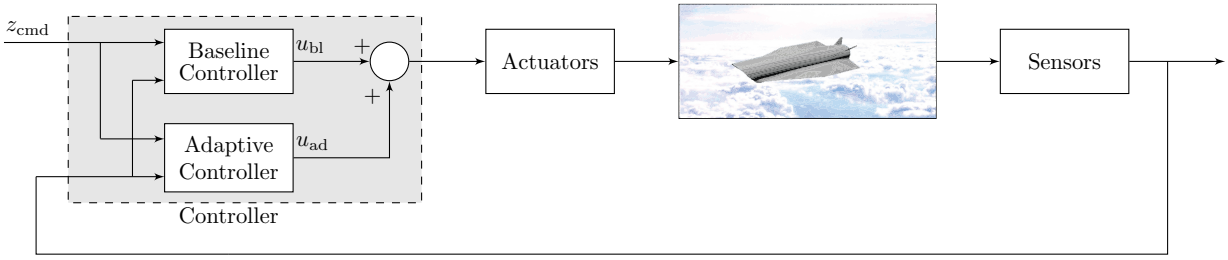


Figure 3: Baseline plus adaptive control block diagram

classical-mrac-1.tex

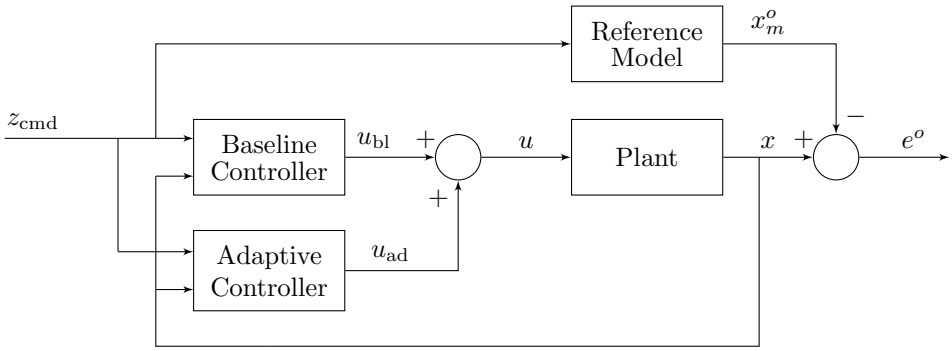


Figure 4: Classical model-reference adaptive control architecture

classical-mrac-2.tex

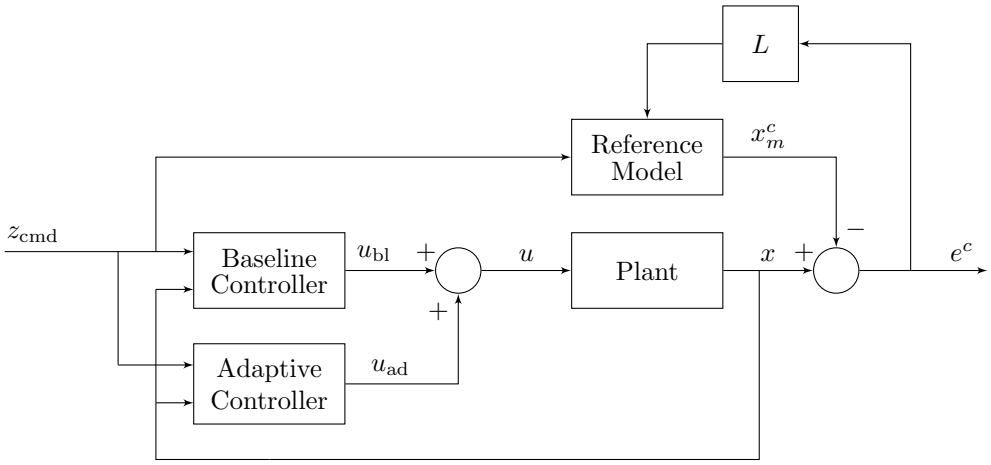
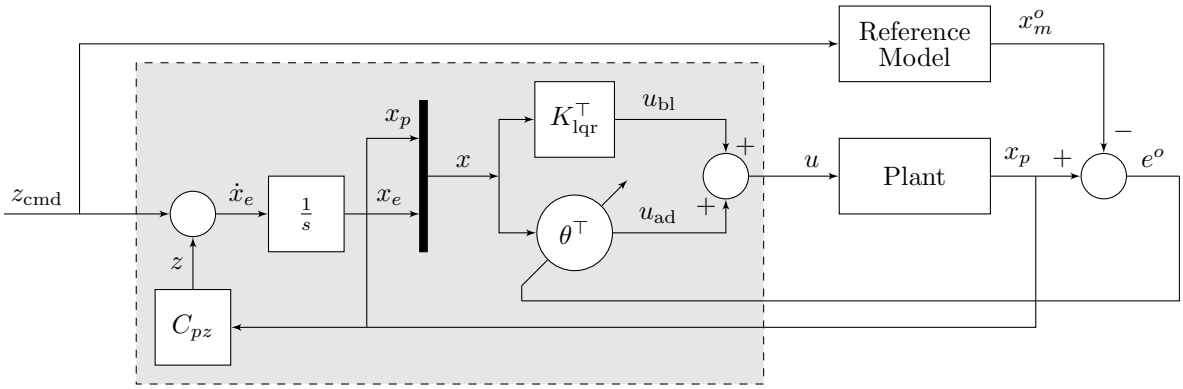
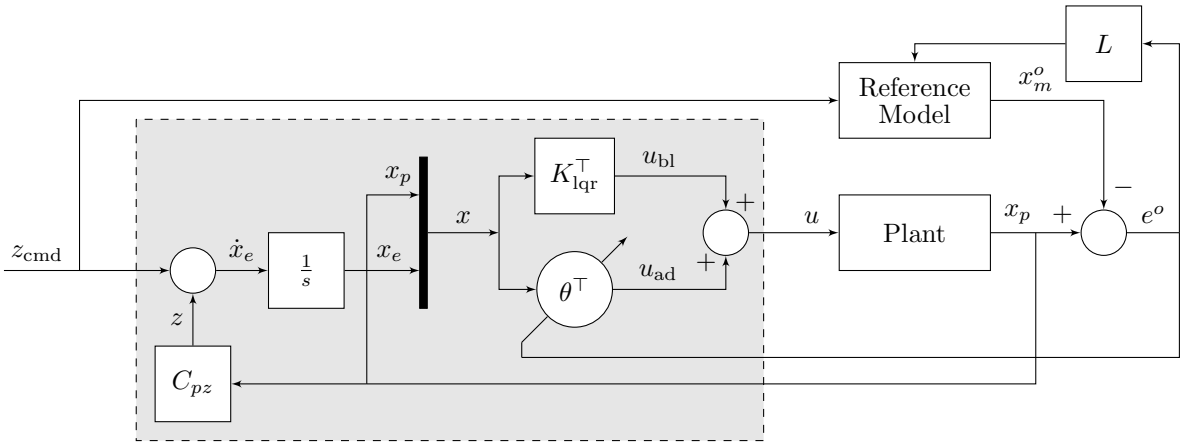


Figure 5: Closed loop reference model adaptive control architecture

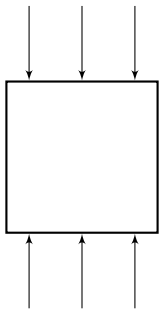
block-003.tex



block-004.tex



block-005.tex



block-006.tex

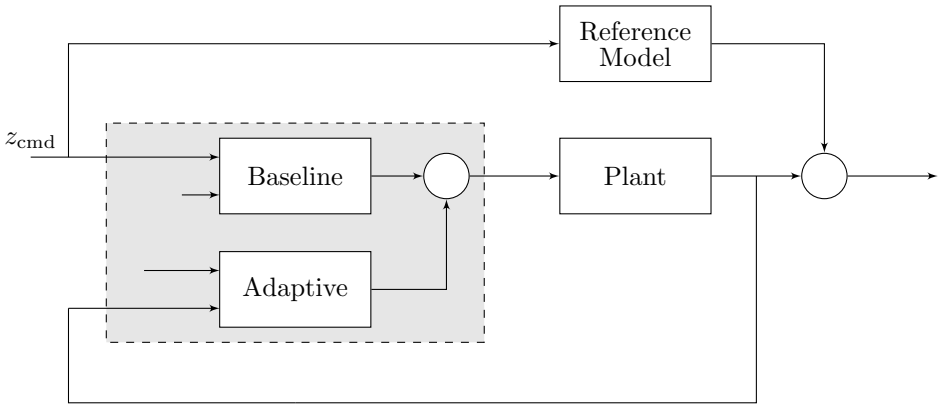


Figure 6: **Classical open loop reference model adaptive control architecture**

block-007.tex

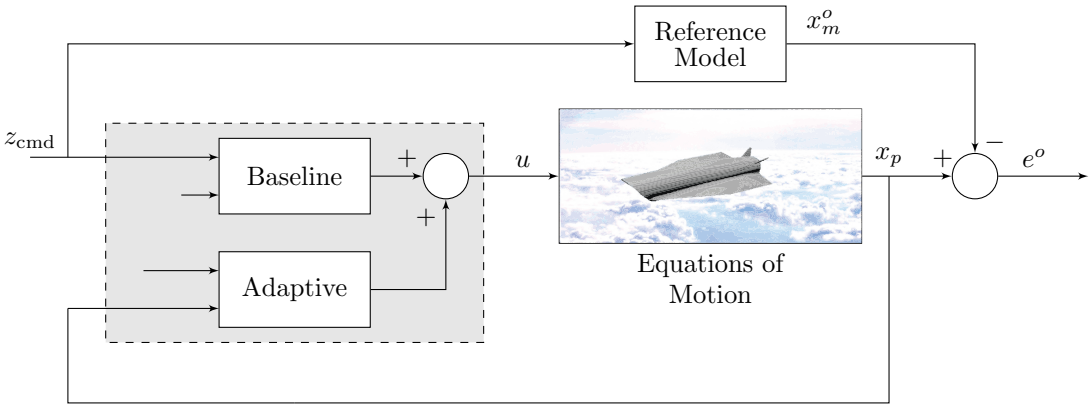


Figure 7: **Classical open loop reference model adaptive control architecture**

block-008.tex

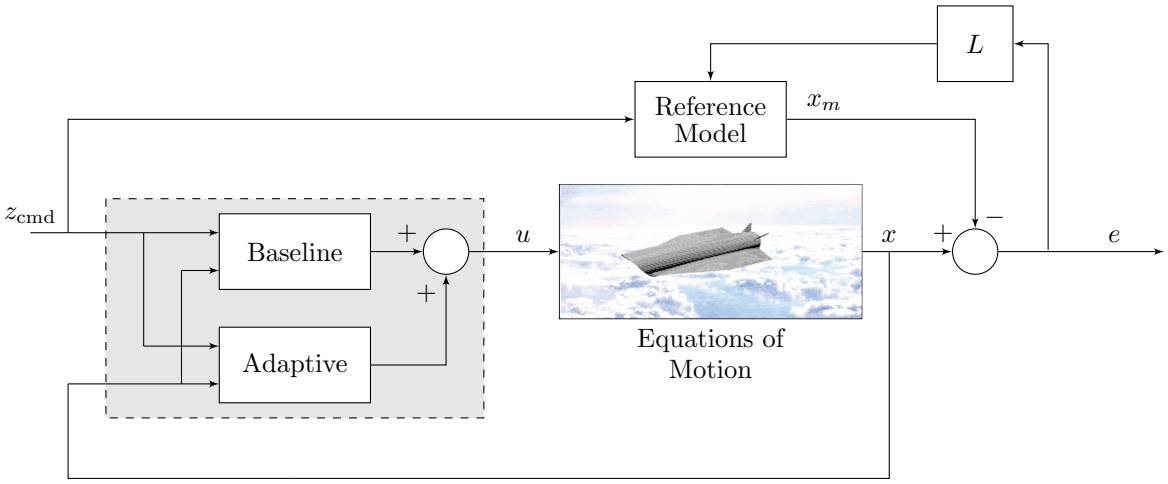


Figure 8: **Closed-loop reference model adaptive control architecture**

block-009.tex

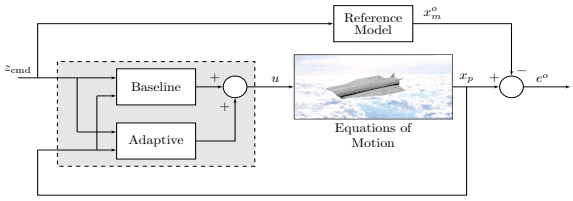
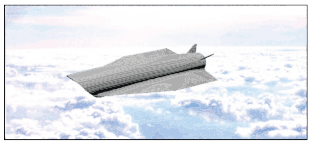


Figure 9: **Classical open loop reference model adaptive control architecture**

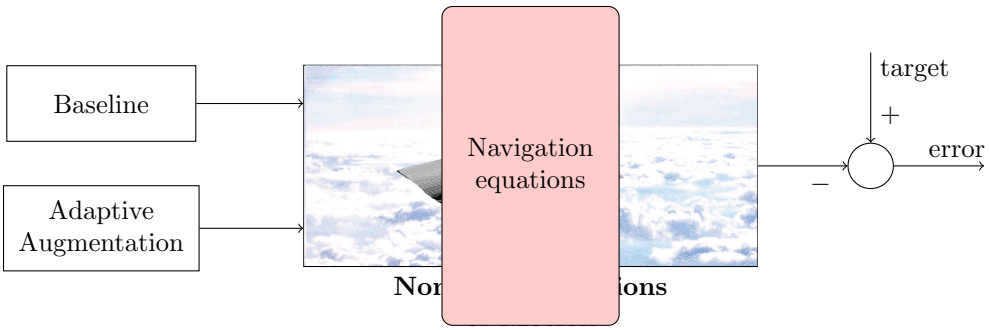
block-010.tex

$A, B\Lambda, C$

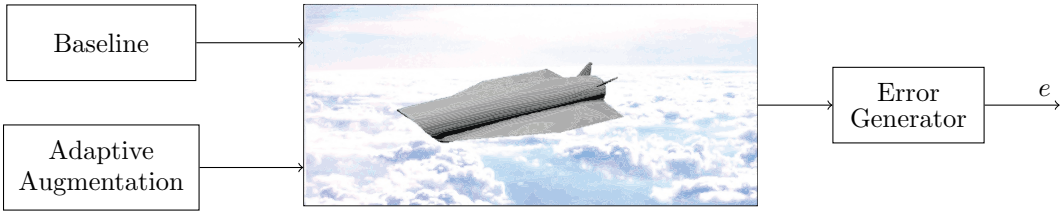


GHV Equations
of Motion

example-3.tex

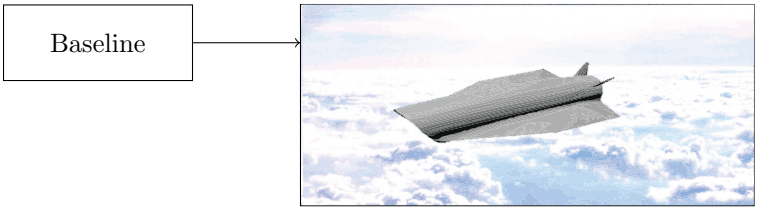


example-3b.tex



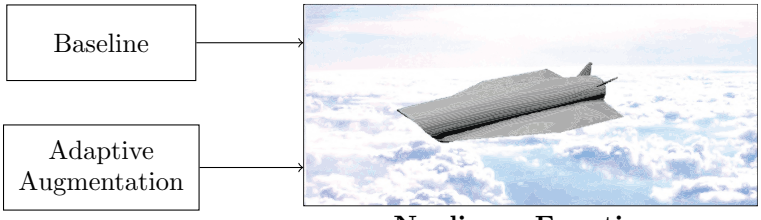
Nonlinear Equations of Motion

example-3c.tex



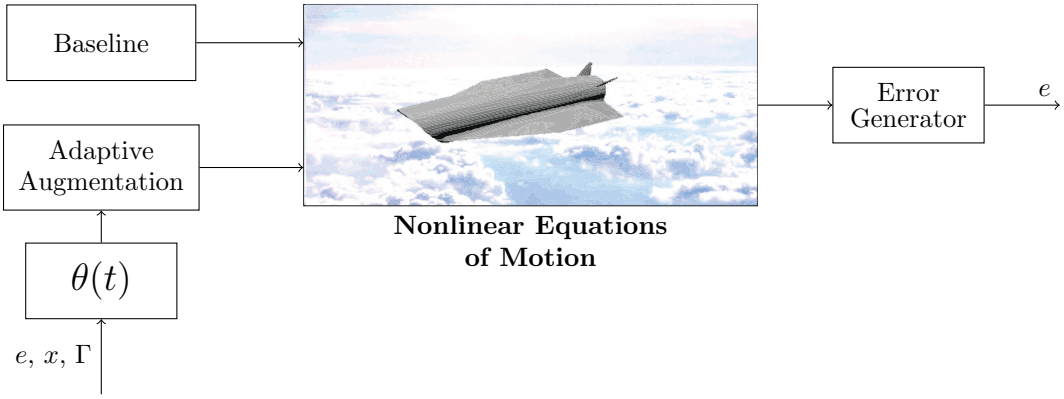
Nonlinear Equations of Motion

example-3d.tex

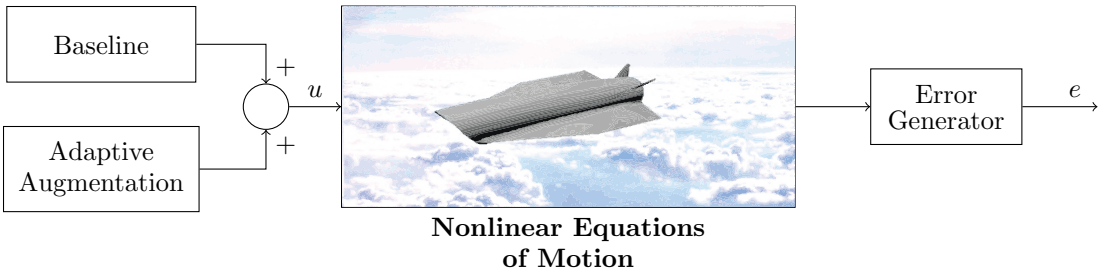


Nonlinear Equations of Motion

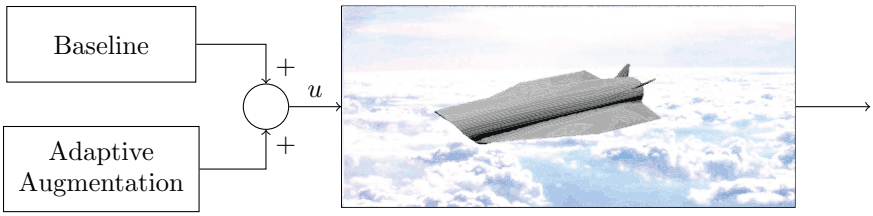
example-4.tex



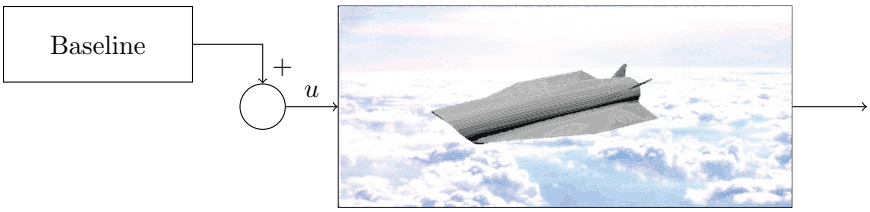
block-011.tex



block-012.tex



block-013.tex



Nonlinear Equations of Motion

block-014.tex

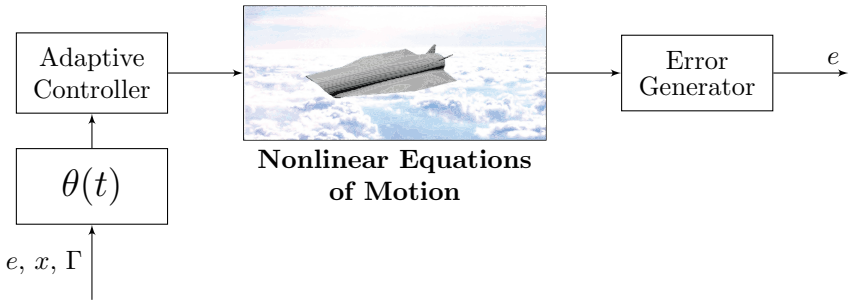
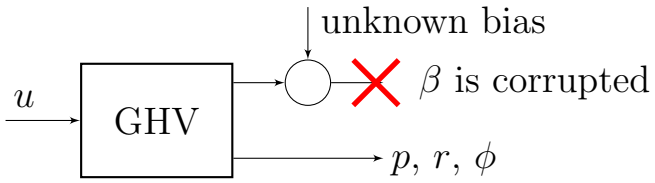
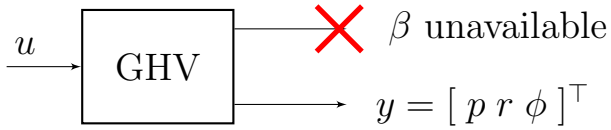


Figure 10: Baseline plus adaptive control block diagram

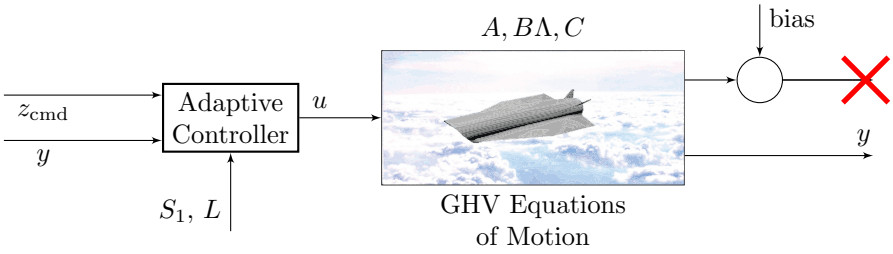
block-015.tex



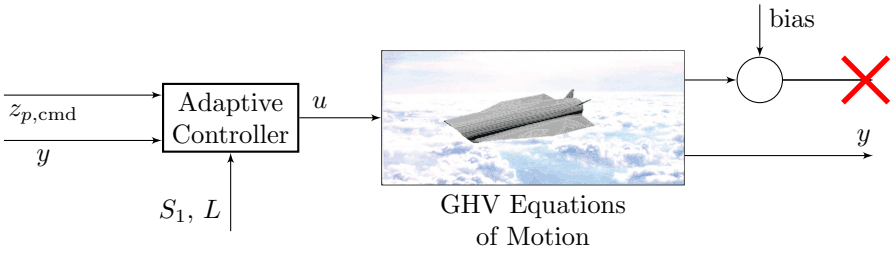
block-016.tex



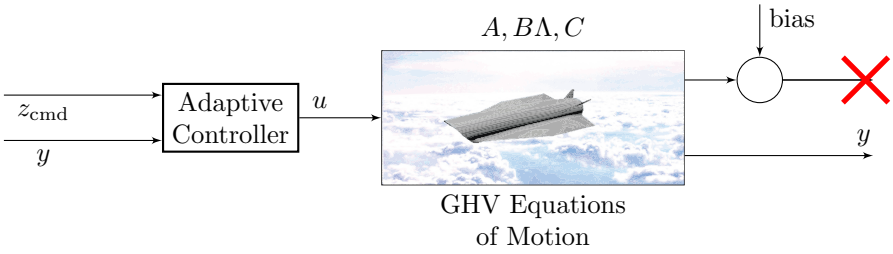
block-017.tex



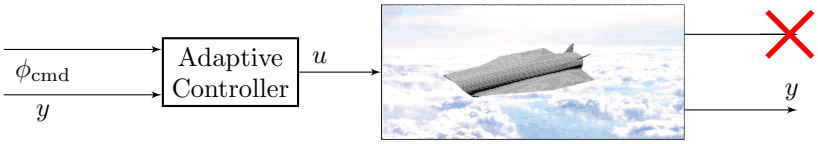
block-018.tex



block-019.tex

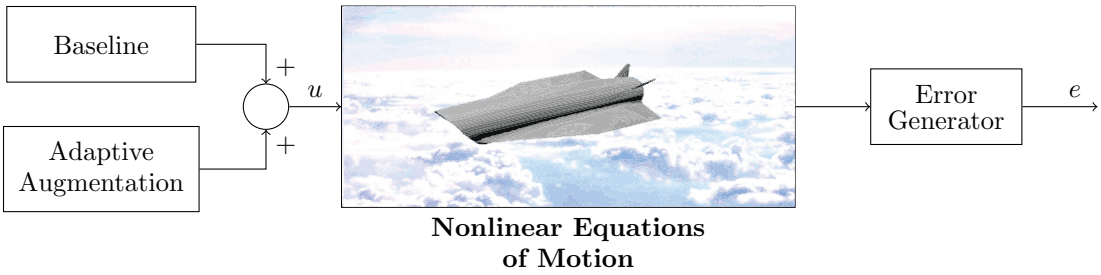


block-020.tex

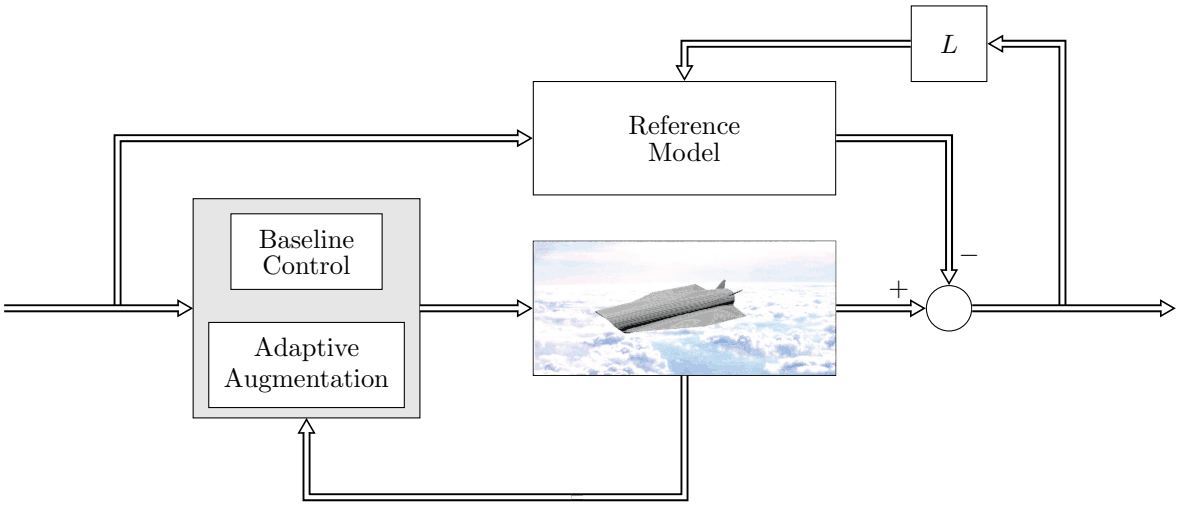


GHV Equations of Motion

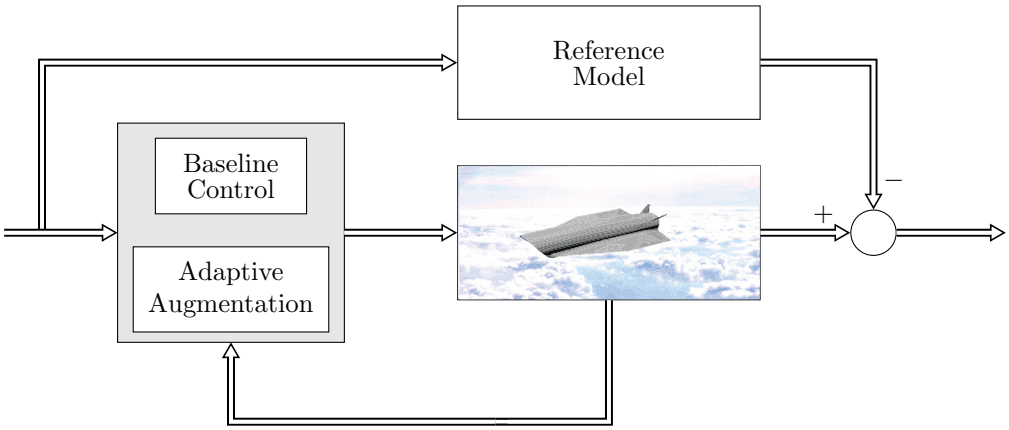
block-021.tex



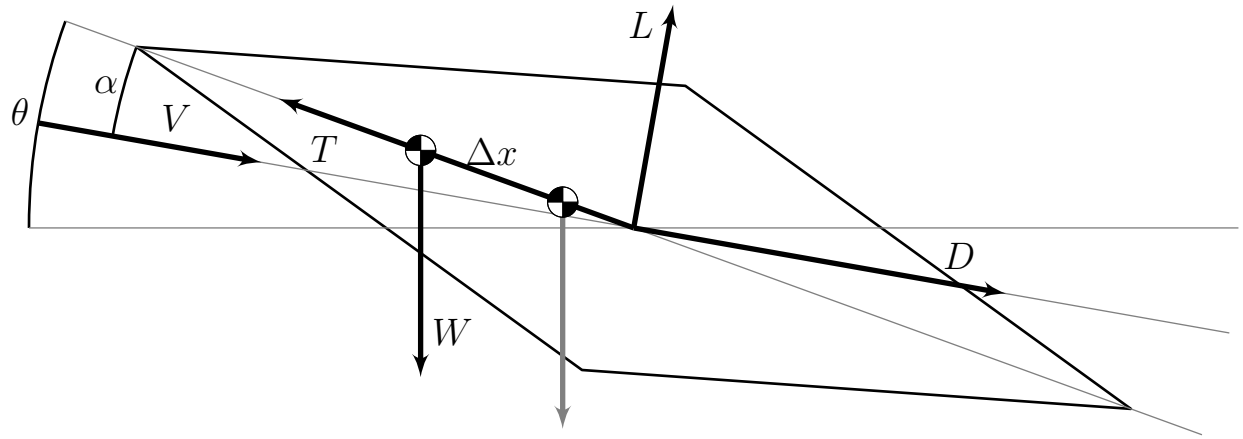
block-022.tex



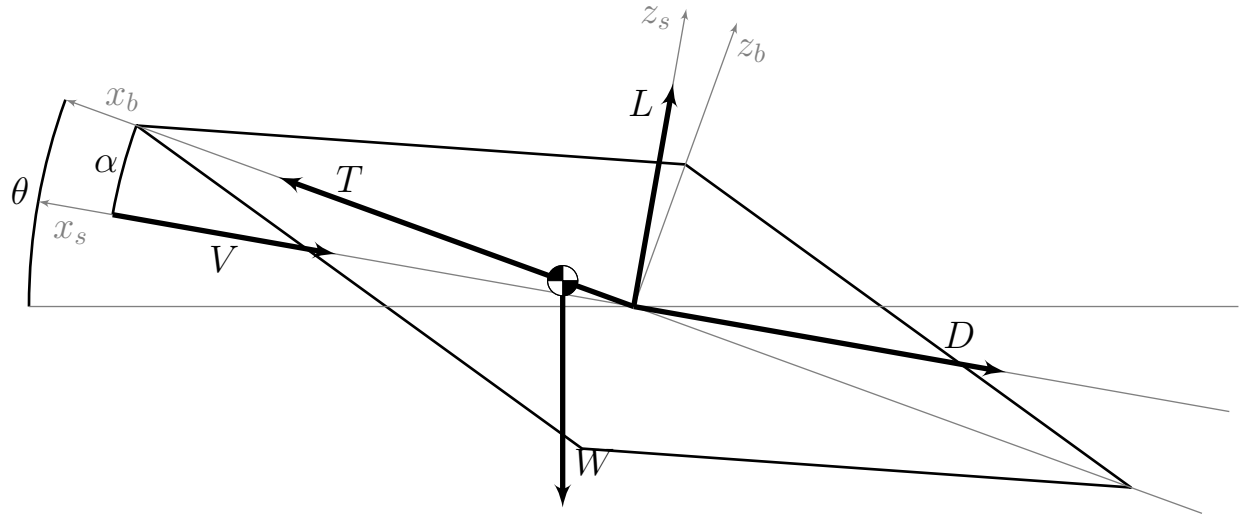
block-023.tex



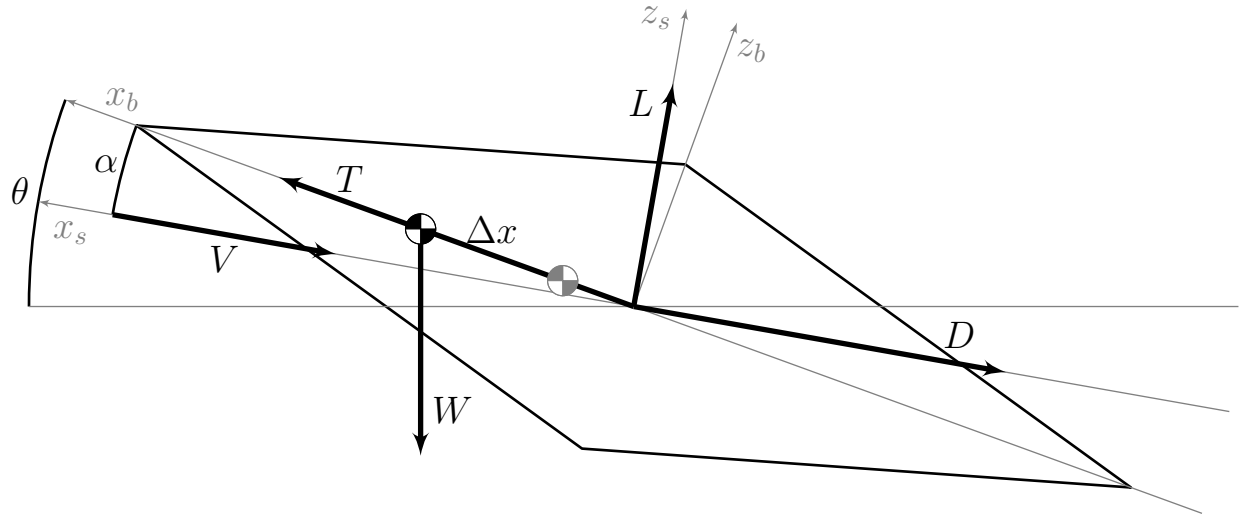
hypersonic-cross-section-1.tex



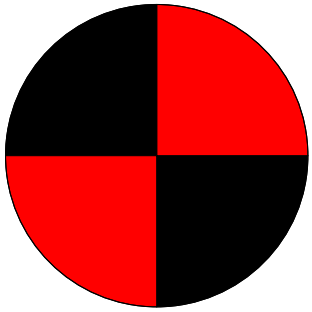
hypersonic-cross-section-2.tex



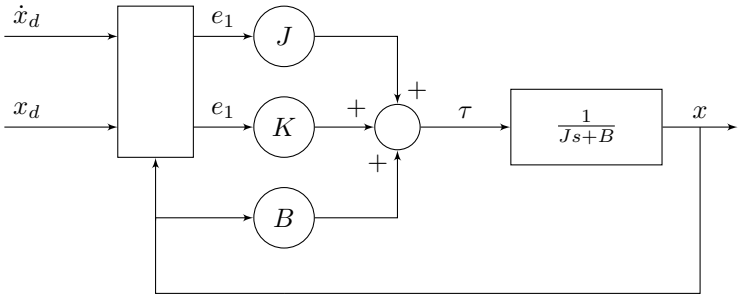
hypersonic-cross-section-3.tex



cg-circle.tex



block-024.tex



block-025.tex

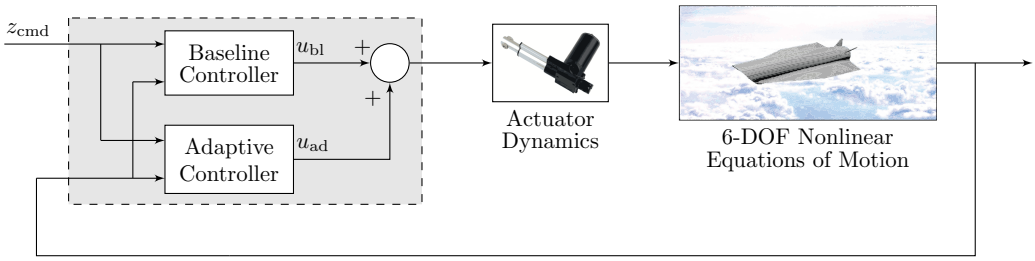
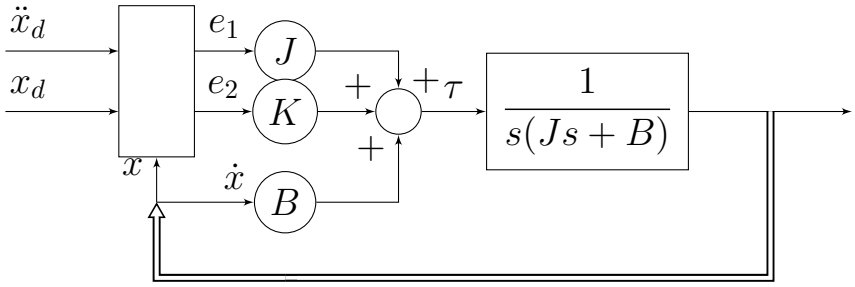
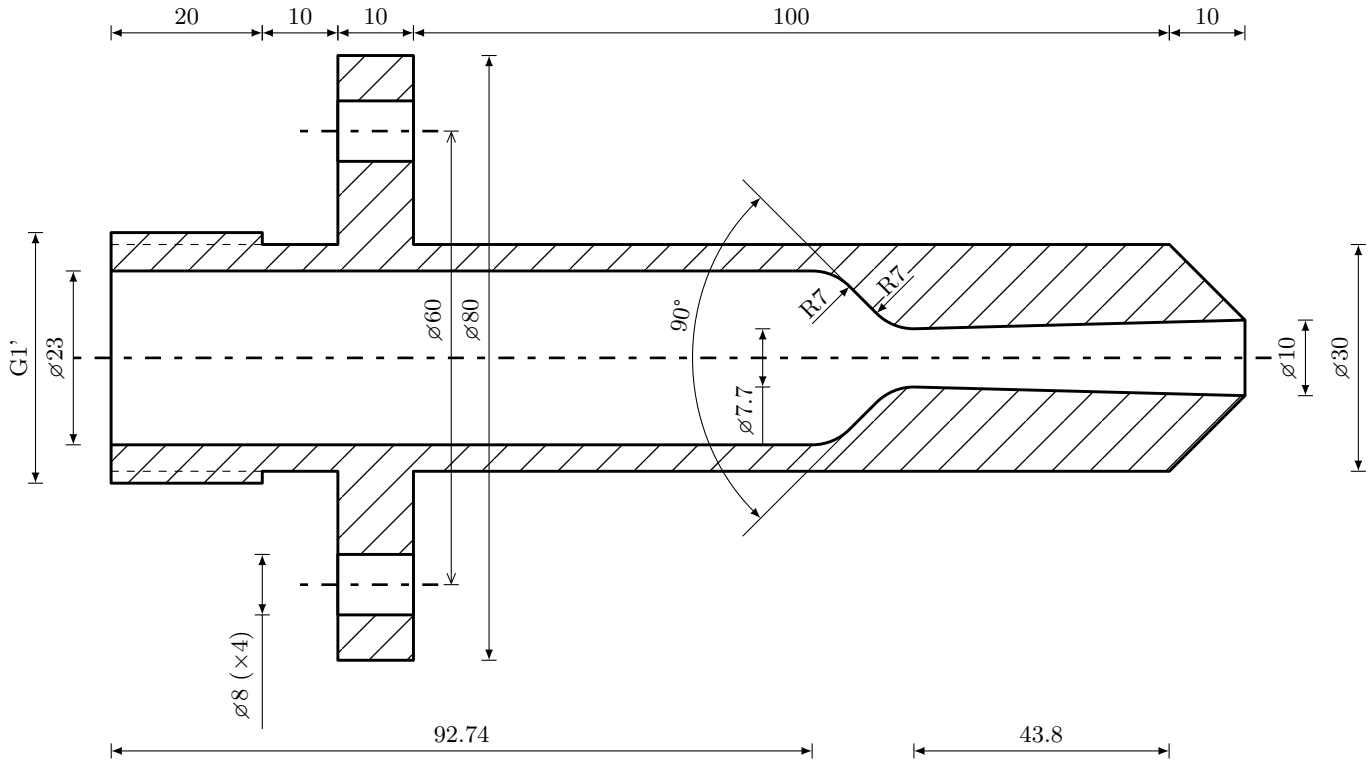


Figure 11: Baseline plus adaptive control block diagram

block-026.tex

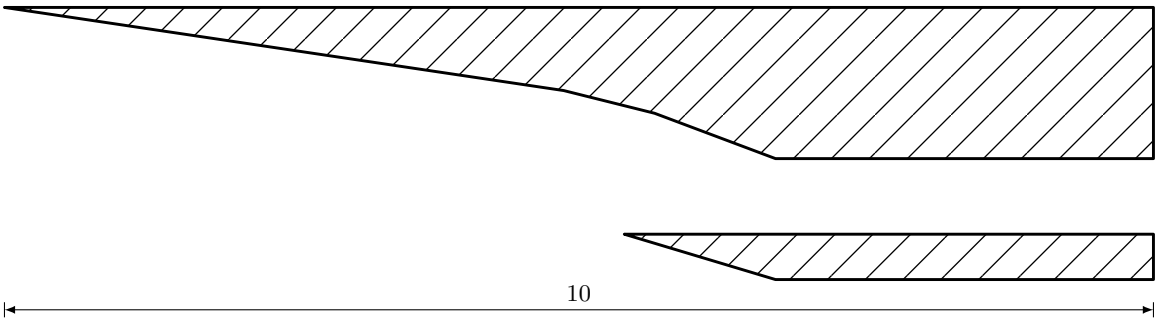


nozzle.tex

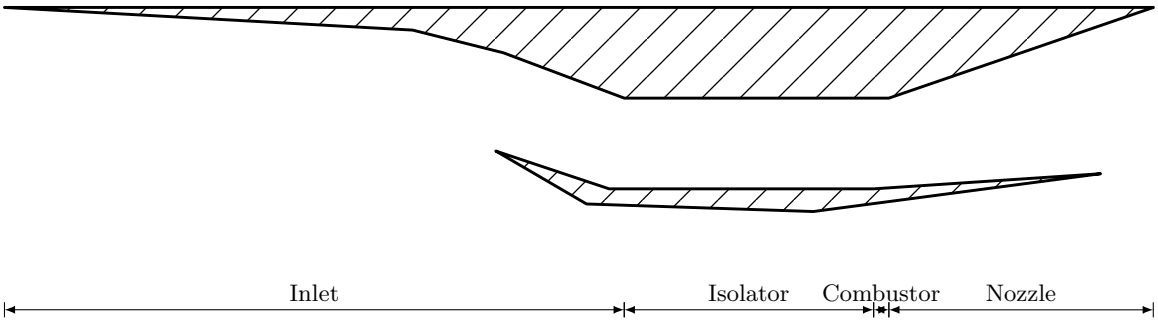


All dimensions are in millimeters

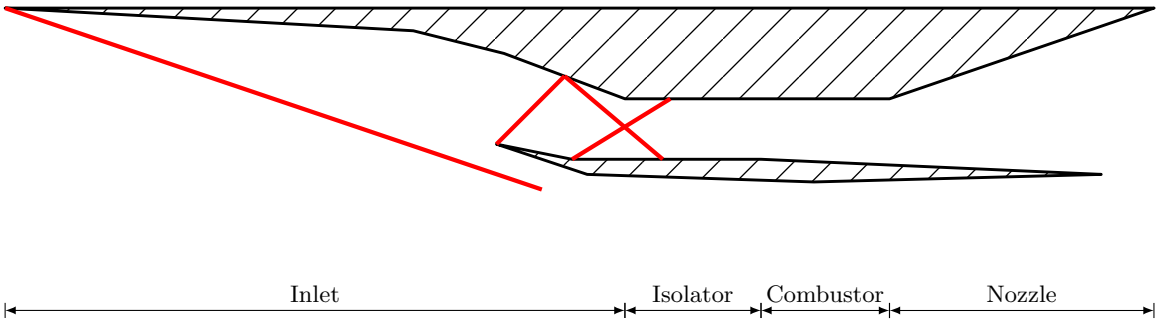
ramjet-0.tex



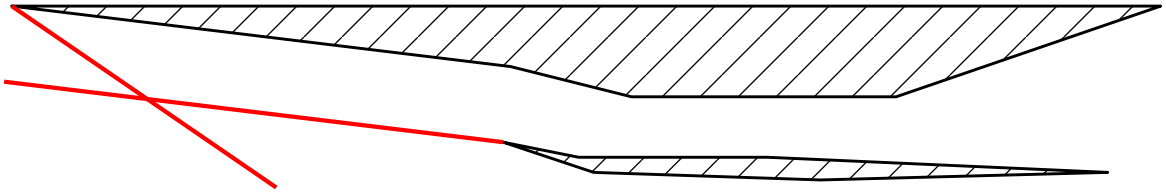
ramjet-1.tex



ramjet-2.tex



ramjet-3.tex



brayton-ideal.tex

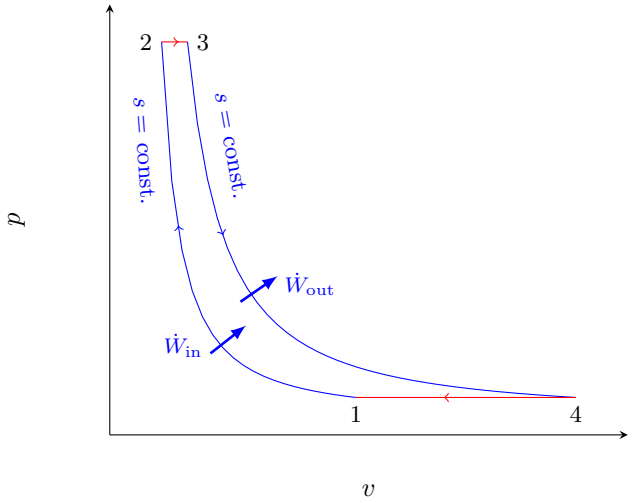


Figure 12: Ideal Brayton cycle

brayton-pv.tex

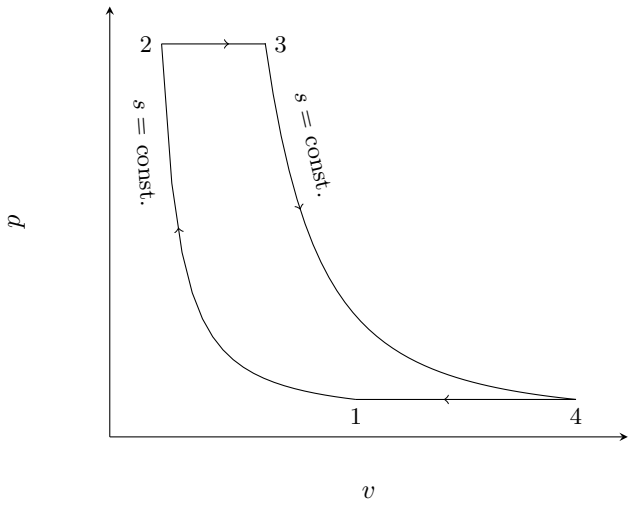
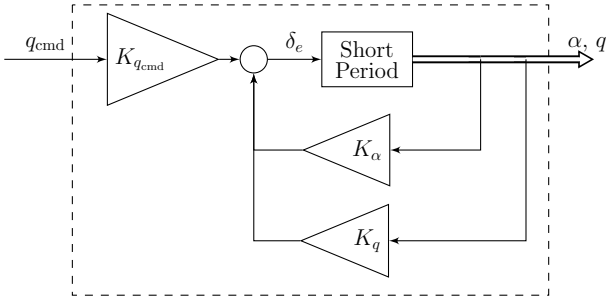
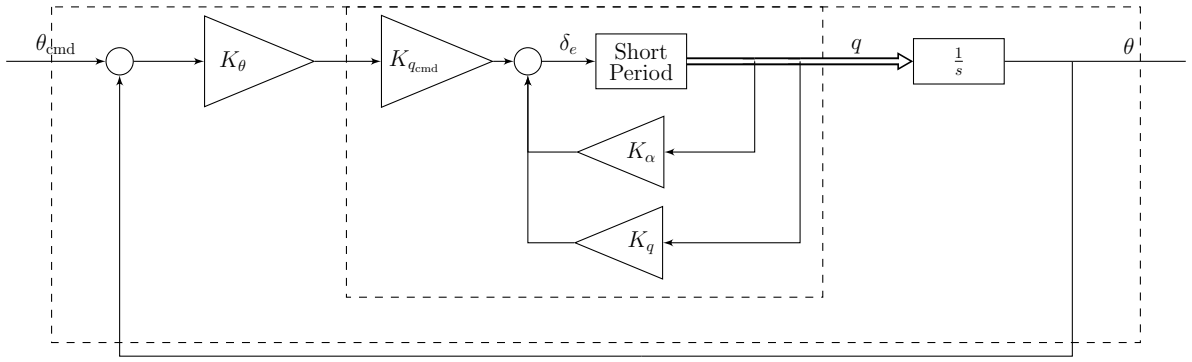


Figure 13: Ideal Brayton cycle P-v Diagram

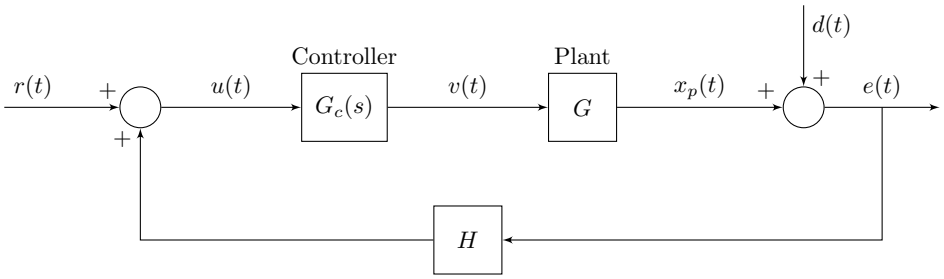
block-027.tex



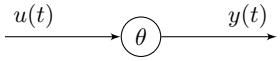
block-028.tex



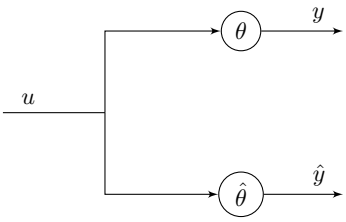
block-029.tex



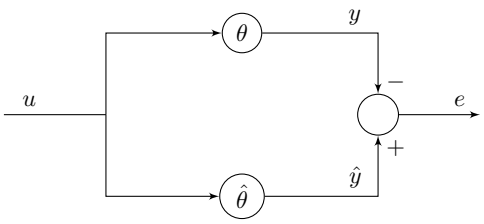
block-030.tex



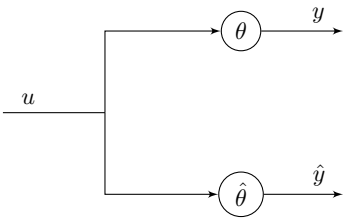
block-031.tex



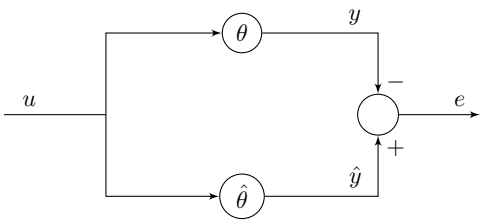
block-032.tex



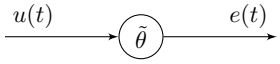
block-033.tex



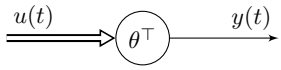
block-034.tex



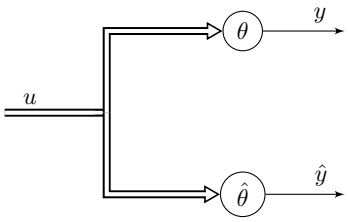
block-035.tex



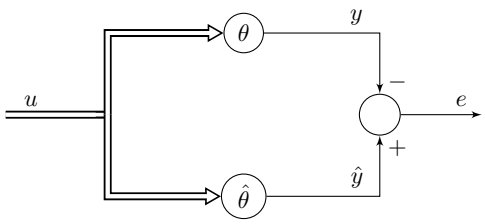
block-036.tex



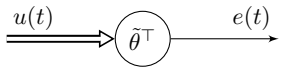
block-037.tex



block-038.tex



block-039.tex



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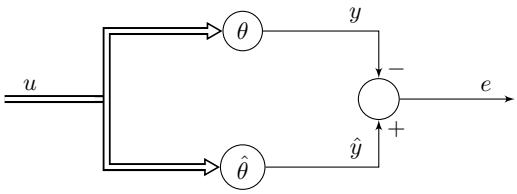
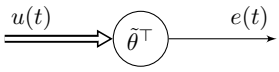
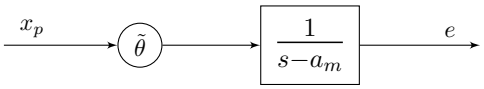


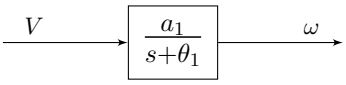
block-041.tex



block-042.tex



block-043.tex



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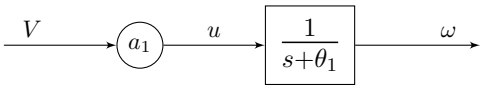
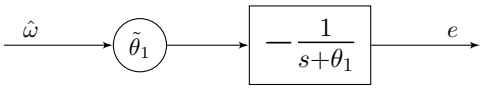
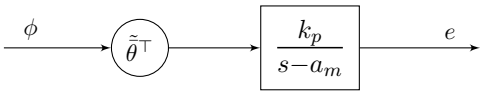


block-045.tex



block-046.tex



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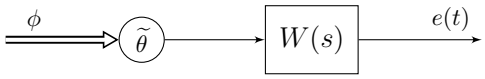

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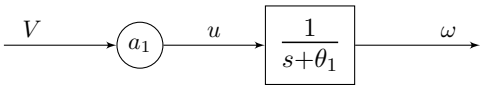
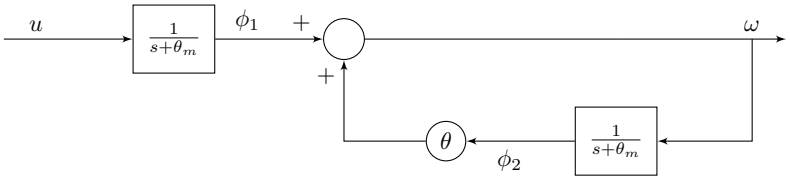
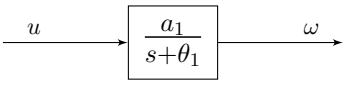


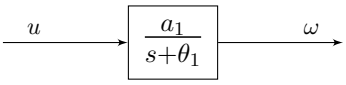
block-049.tex



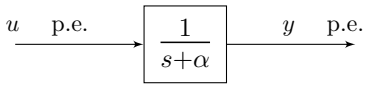
block-050.tex



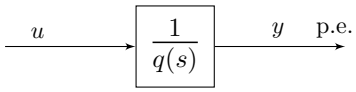
block-051.tex



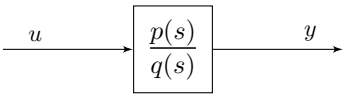
block-052.tex



block-053.tex

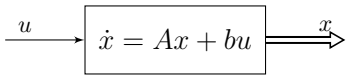


block-054.tex

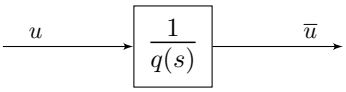


$p(s)$ $q(s)$ Hurwitz proper t.f.

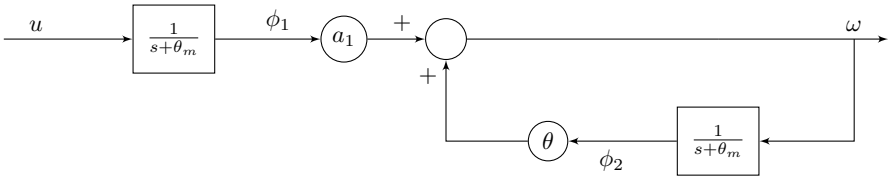
block-055.tex



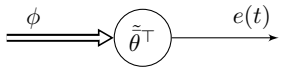
block-056.tex



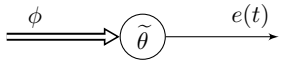
block-057.tex



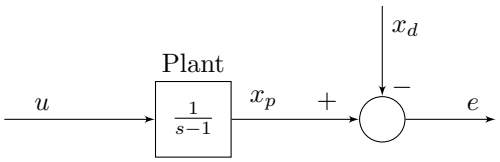
block-058.tex



block-059.tex



block-060.tex



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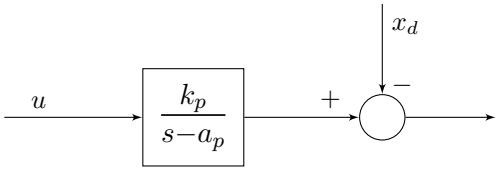
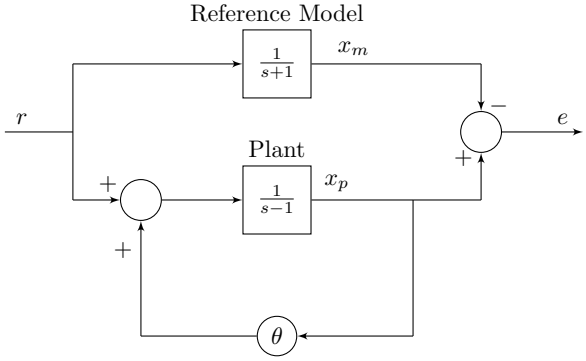
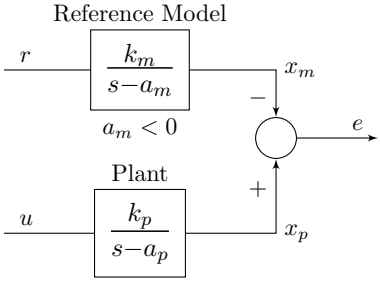


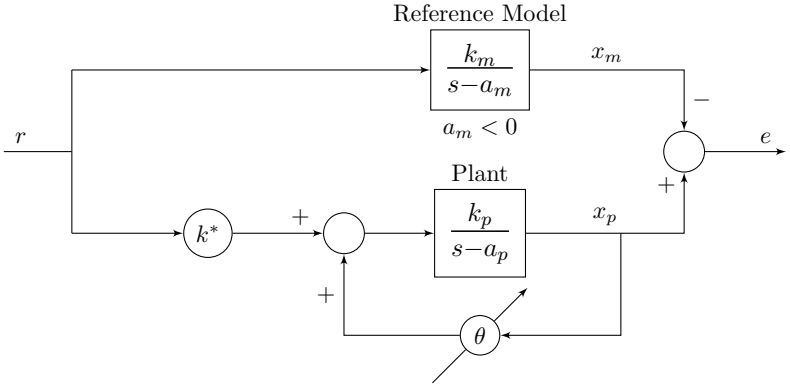
block-062.tex



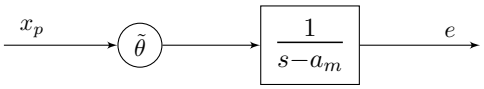
block-063.tex



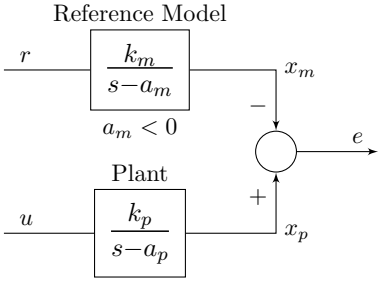
block-064.tex



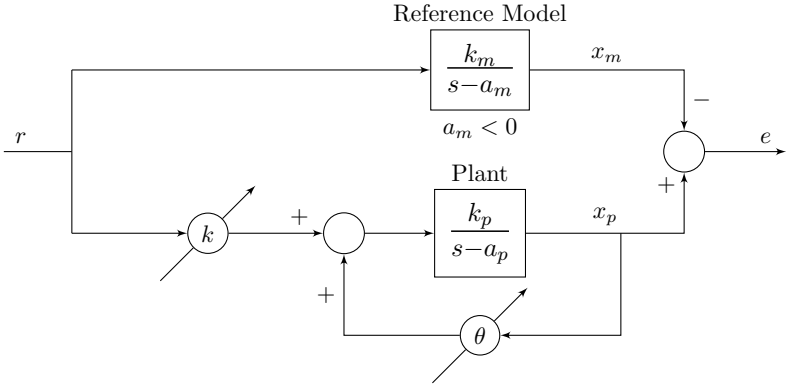
block-065.tex



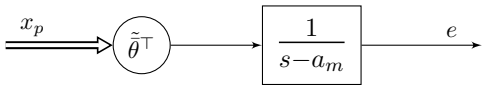
block-066.tex



block-067.tex



block-068.tex



block-069.tex

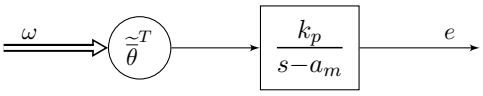
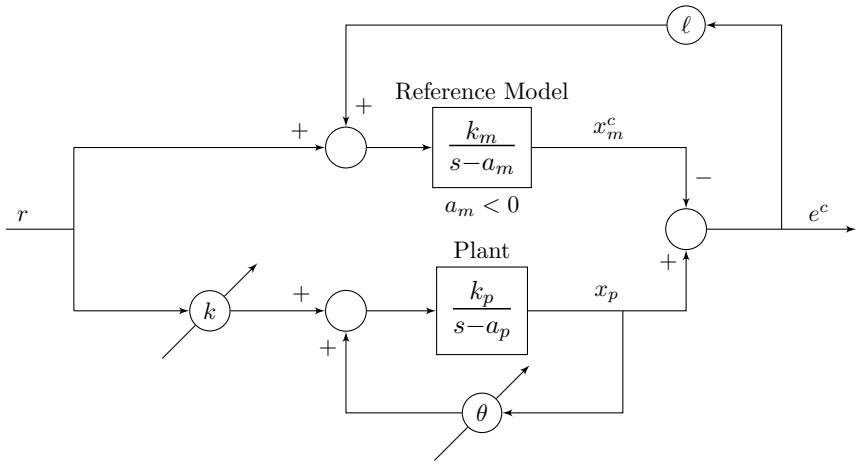
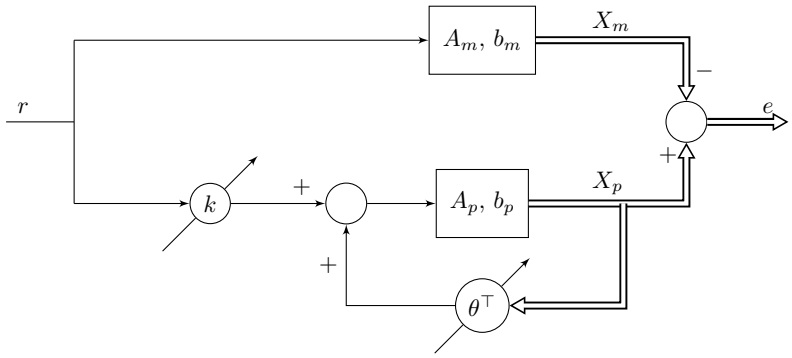


Figure 14: *lec*2 *fig*13 *and lec*3 *fig*1

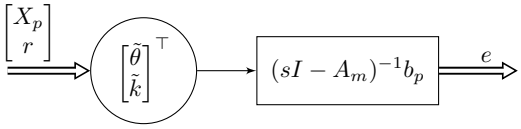
block-070.tex



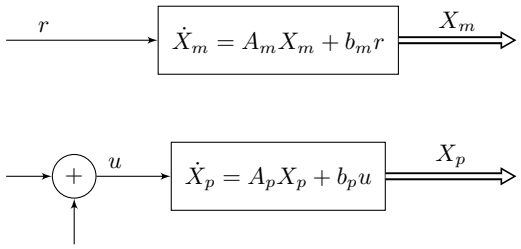
block-071.tex



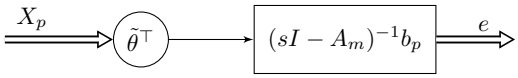
block-072.tex



block-073.tex

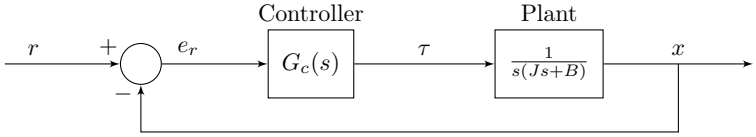


block-074.tex

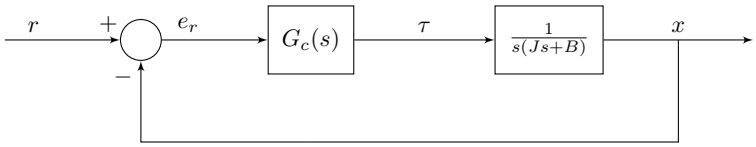


Error Model 2

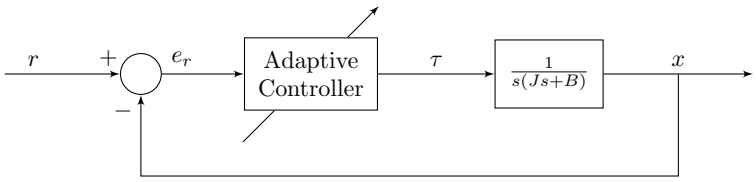
block-075.tex



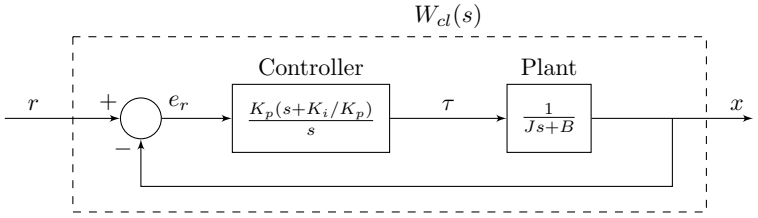
block-076.tex



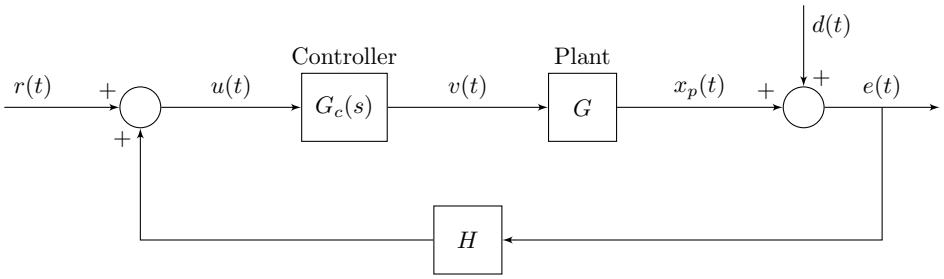
block-077.tex



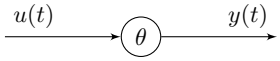
block-078.tex



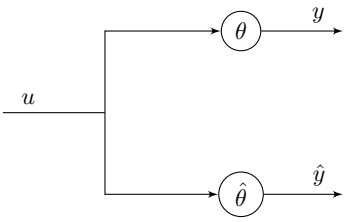
block-079.tex



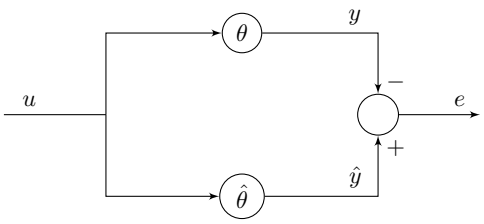
block-080.tex



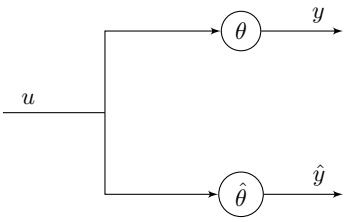
block-081.tex



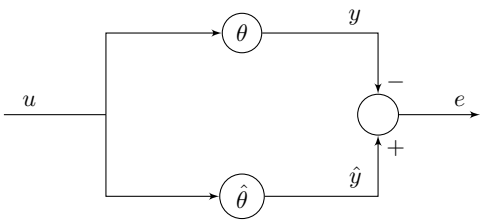
block-082.tex



block-083.tex



block-084.tex



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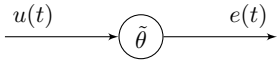
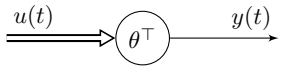
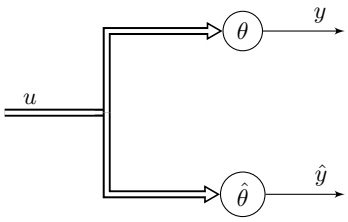


block-086.tex



block-087.tex



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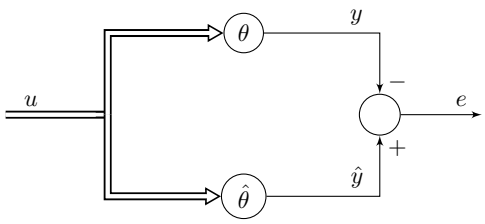

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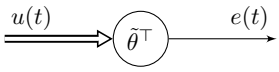

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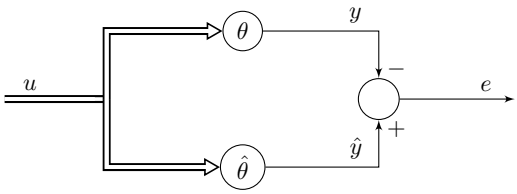

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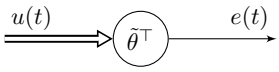
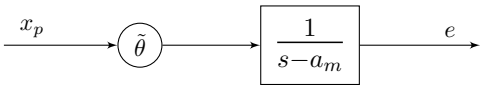
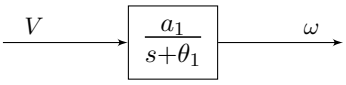


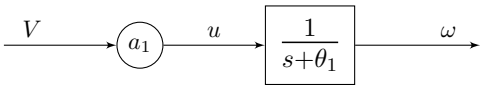
block-092.tex



block-093.tex



block-094.tex



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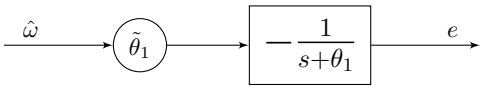

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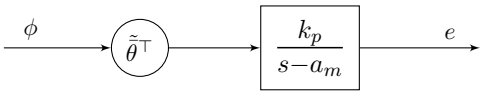

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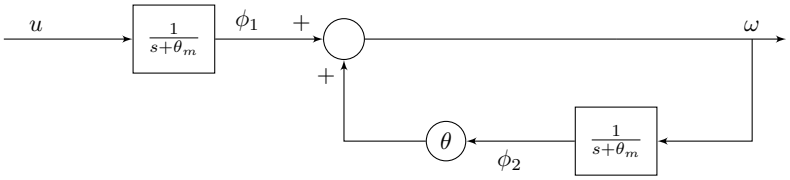

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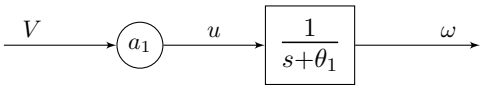

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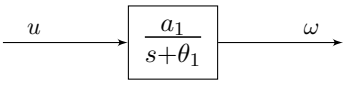

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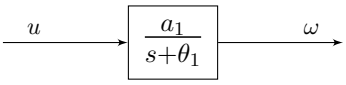
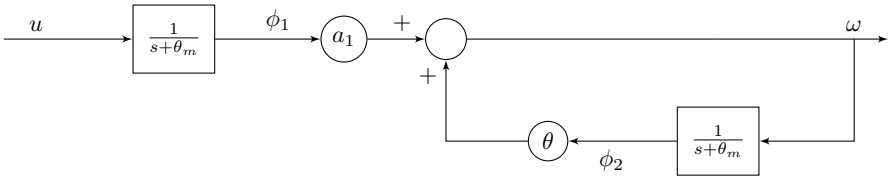


block-101.tex



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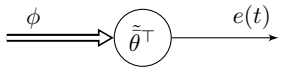
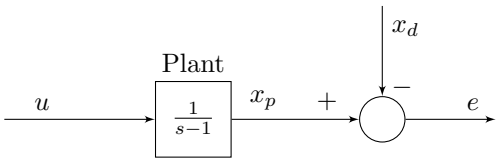


block-103.tex



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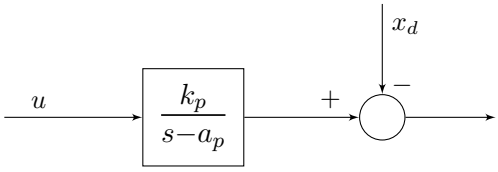

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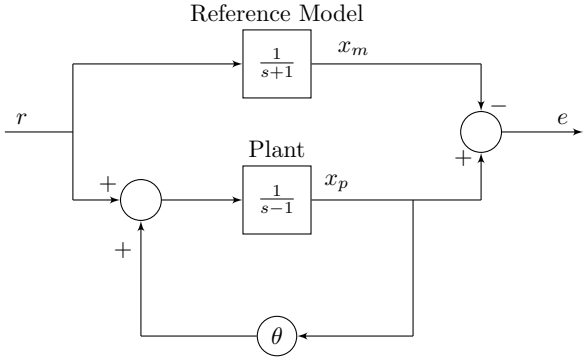
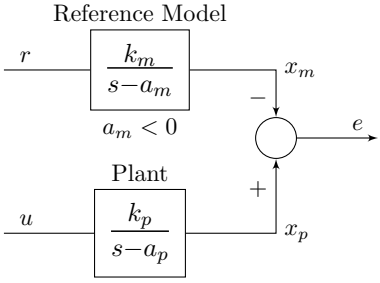


block-106.tex



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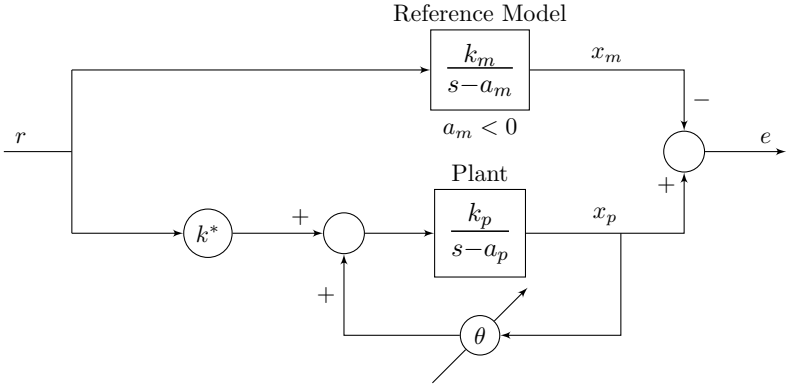
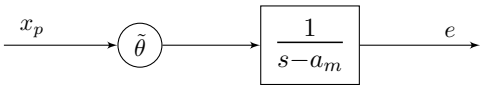
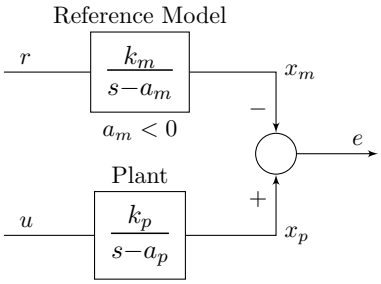


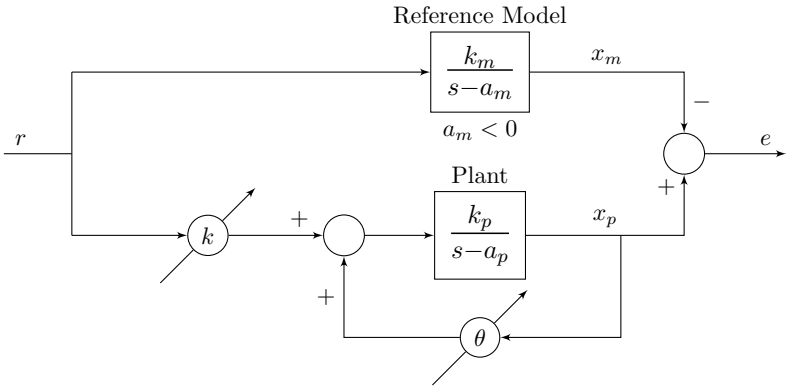
block-108.tex



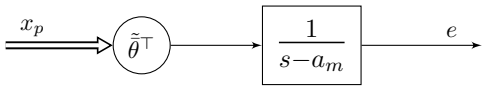
block-109.tex



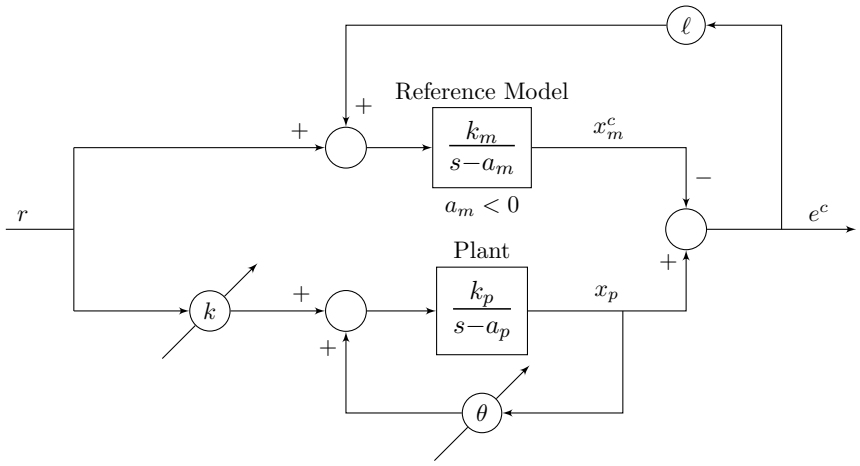
block-110.tex



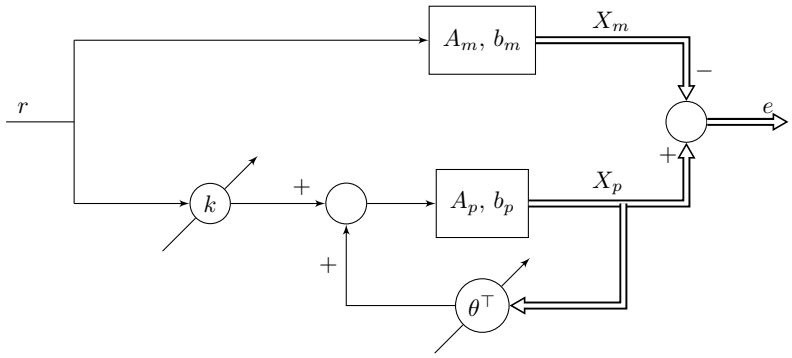
block-111.tex



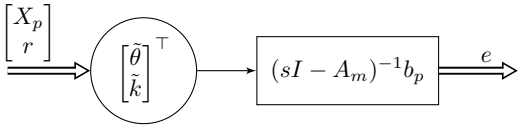
block-112.tex



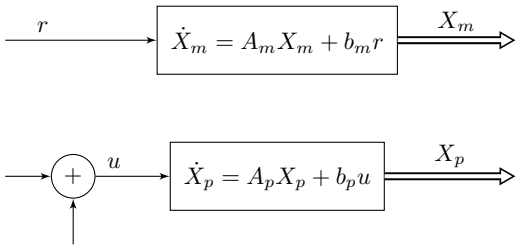
block-113.tex



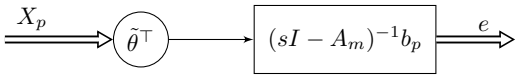
block-114.tex



block-115.tex

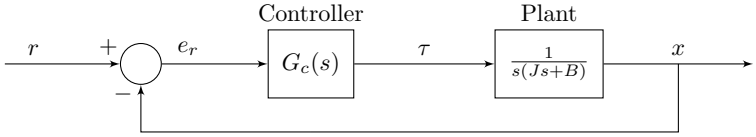


block-116.tex

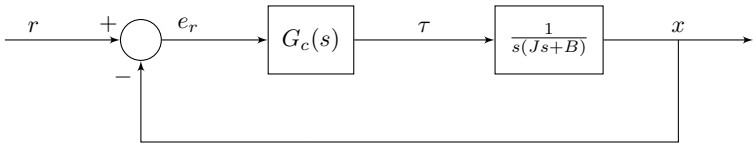


Error Model 2

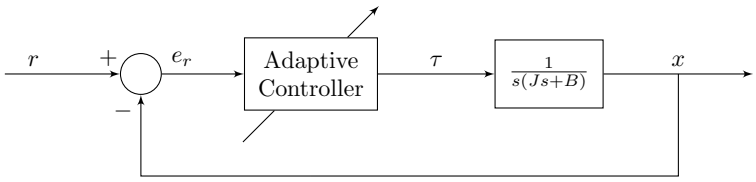
block-117.tex



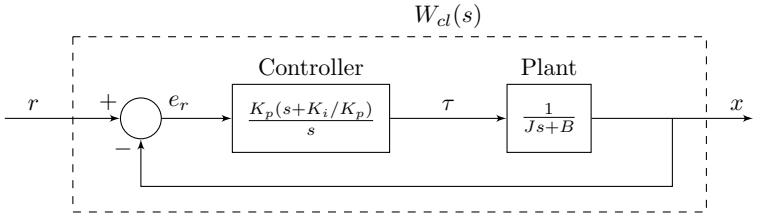
block-118.tex



block-119.tex



block-120.tex



gravity-turn.tex