

Desmed Centroida Momenta 11 H-Holes 11 ANTH-2HT Hales + Hete. Holis (ci+cv) (ci+cv)-2(ci+cv) 7 49 A Horas Hous 16 num HTH-ZHTHan (ců+cv) (ců+cv) -2(ců+cv) Hdes (ci) (ci) + 2 (ci) T(ci) + (cv) + (cv) + (cv) T(cv) - 2 (cv+cv) T(des iTCi+(cv-WVdu)TV Slowness; sin/Rigid Body Plant: Do Calc Time Derivatues + xxx closestports from Diagra! Do CalcTime Derivatives From Integrator: Doste p Look for IX solver · New applan type with separate body motions different integration scheme collivatale 50000 ns 700000 50 *50 $\begin{bmatrix} 1 & 2 \\ 3 & 4 \end{bmatrix} \begin{bmatrix} 0 & 1 \\ 1 & 6 \end{bmatrix} = \begin{bmatrix} 2 & 1 \\ 4 & 3 \end{bmatrix}$ $\begin{bmatrix} 3 & 1 & 0 \\ 1 & 0 & 1 \\ 7 & 7 \end{bmatrix} \begin{bmatrix} 1 \\ 1 \\ 2 \end{bmatrix} \begin{bmatrix} 1 \\ 2 \\ 2 \end{bmatrix}$

Drake QP inverse dynamics controller Dynamics: M(q) + h(q,v)= ST+JT/ contact whench in world frame Dynamics en acceleration / selection metros condect forekys torque limitimes In actual implementation M(E) v+h(a,v) = St+JT BAB replaced by sct of point forces LF, PF-cotact applied at constact points cen man charge cost pelvis, took cost Desired motions! Wades in Cartesian -linear art v becomes [M,-JB][i] + [he] ades = J V + JV $T = M_e \dot{v} + h_e - (J^T B)_e \beta$ Just solve for where I means bottom NI vows can also be high weight · Dynamics / Cost terms - Tun-h < MU-JBB egustry: Inemalty! 5 Turan - h · Jonet torge Imf 'contact constraints 'Limitson B (forces) mm (Jcom V+Jcom V - Pcom)2+ (V-Voles) + boody acceleration 3600F V 32 B Loss reights Dynamiss eq -68 total Axzb Acq 6×68 surt O $\begin{bmatrix} \lambda^{2} \\ \lambda^{2} \end{bmatrix} \begin{bmatrix} \lambda^{2} \\ \lambda^{2} \end{bmatrix} = \begin{bmatrix} \lambda^{2} \\ \lambda^{2} \end{bmatrix}$ (2) Not en 15 × 36 Qhad an infinity content force basis 120 · make general fithods Amer 32x32 slut 36 To more () for getting Q, c, - torque limit Aca, Airea, bea, biner Messasse) Newcon from apspecitions in Math Program Contelled Goorob Sormoset leftfrot cartie) 36+36 Mut 0 Lookar plantival System see mosek_solver.cc right F contest 31 -30 O extruct to somewhere else 1. I controrded monertu chaque だけ。い) 36 36 0 pelvistings vol · XT(JeJc)X+ 6 asis res 3 2 x 32 36

Trake Acrobot smugnp excuple s, mulator > ino Pensilisher acrobot out o)
systems: Arabolishalismaliser usin Acrobot plant /x controller

in O Acrobatspong Cantroller out O Basic procedue; 1. Set up chagren w/nodes _ robot inst to set initial state · controller - acrobat_context via GetMutable Subsystem Context Diagram -2. 80 Buildbyram 15 ses not sy stem 3. Set up simulator W/diagram Vsoesmio Similator 4. Initialized simulator (ste Controllers (step To (time(s)) class with: input port (state) where axesystem dynamics (eg. for pendulur) calculated? outputport (plant Input. I function to coloutek entrol [controls) shooting Methol see acrobat spong-confiler Try patting Lapin? for how to we de linemae also note that acrobot example has Lookat: Wasken · systems directory state receiver and commel gender 'text gflgs · LCM basics instead of just a plant, since it's meant to deal w/a real rob of · Humanofel controller Valleyrie exmple · URDF pensing / simple robot? plant inside controller just three linkarm tracks real vobot . way to you fine Ofthe diggram? System: To Autobiff Xol Support in System - Low?

