function [] = laplaceTransform(Torque)

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function [L] = laplaceTransform(Torque)

N = size(Torque);

N = N(1);

verbose = 1;

signpost(verbose,'Start: laplaceTransform()')

**Initialise variables**

signpost(verbose,'Variable init')

syms s

syms a1 da1 dda1

syms a2 da2 dda2

syms a3 da3 dda3

a\_list = [a1, a2, a3];

da\_list = [da1, da2, da3];

dda\_list = [dda1, dda2, dda3];

for index = 1:N

**Initialise variables**

signpost(verbose,'Variable init Loop')

a = a\_list(index);

da = da\_list(index);

dda = dda\_list(index);

T = Torque(index,1);

eq = Torque(index,2);

str = ['T',num2str(index),' == ' char(eq)];

L = simplify(laplace(eq, a, s));

L = simplify(subs(L, da, (1/s)));

L = simplify(subs(L, dda, 1));

L = simplify(L\*(s^2));

p(str);

p(L);

end

signpost(verbose,'Done: laplaceTransform()')

end

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