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solid = readmatrix('solid.csv', 'ThousandsSeparator', ',');
RP1 = readmatrix('RP1.csv', 'ThousandsSeparator', ',');
LCH4 = readmatrix('LCH4.csv', 'ThousandsSeparator', ',');
LH2 = readmatrix('LH2.csv', 'ThousandsSeparator', ',');
storable = readmatrix('storable.csv', 'ThousandsSeparator', ',');

LCH4_min_mass_MASS_solid = solid(1,1);
LH2_min_mass_MASS_solid = solid(1,2);
RP1_min_mass_MASS_solid = solid(1,3);
solid_min_mass_MASS_solid = solid(1,4);
storable_min_mass_MASS_solid = solid(1,5);

LCH4_min_mass_COST_solid = solid(2,1);
LH2_min_mass_COST_solid = solid(2,2);
RP1_min_mass_COST_solid = solid(2,3);
solid_min_mass_COST_solid = solid(2,4);
storable_min_mass_COST_solid = solid(2,5);

LCH4_min_cost_COST_solid = solid(3,1);
LH2_min_cost_COST_solid = solid(3,2);
RP1_min_cost_COST_solid = solid(3,3);
solid_min_cost_COST_solid = solid(3,4);
storable_min_cost_COST_solid = solid(3,5);

LCH4_min_cost_MASS_solid = solid(4,1);
LH2_min_cost_MASS_solid = solid(4,2);
RP1_min_cost_MASS_solid = solid(4,3);
solid_min_cost_MASS_solid = solid(4,4);
storable_min_cost_MASS_solid = solid(4,5);

LCH4_min_mass_MASS_RP1 = RP1(1,1);
LH2_min_mass_MASS_RP1 = RP1(1,2);
RP1_min_mass_MASS_RP1 = RP1(1,3);
solid_min_mass_MASS_RP1 = RP1(1,4);
storable_min_mass_MASS_RP1 = RP1(1,5);

LCH4_min_mass_COST_RP1 = RP1(2,1);
LH2_min_mass_COST_RP1 = RP1(2,2);
RP1_min_mass_COST_RP1 = RP1(2,3);
solid_min_mass_COST_RP1 = RP1(2,4);
storable_min_mass_COST_RP1 = RP1(2,5);

LCH4_min_cost_COST_RP1 = RP1(3,1);
LH2_min_cost_COST_RP1 = RP1(3,2);
RP1_min_cost_COST_RP1 = RP1(3,3);
solid_min_cost_COST_RP1 = RP1(3,4);
storable_min_cost_COST_RP1 = RP1(3,5);

LCH4_min_cost_MASS_RP1 = RP1(4,1);
LH2_min_cost_MASS_RP1 = RP1(4,2);
RP1_min_cost_MASS_RP1 = RP1(4,3);
solid_min_cost_MASS_RP1 = RP1(4,4);
storable_min_cost_MASS_RP1 = RP1(4,5);

LCH4_min_mass_MASS_LCH4 = LCH4(1,1);
LH2_min_mass_MASS_LCH4 = LCH4(1,2);
RP1_min_mass_MASS_LCH4 = LCH4(1,3);
solid_min_mass_MASS_LCH4 = LCH4(1,4);
storable_min_mass_MASS_LCH4 = LCH4(1,5);

LCH4_min_mass_COST_LCH4 = LCH4(2,1);
LH2_min_mass_COST_LCH4 = LCH4(2,2);
RP1_min_mass_COST_LCH4 = LCH4(2,3);
solid_min_mass_COST_LCH4 = LCH4(2,4);
storable_min_mass_COST_LCH4 = LCH4(2,5);

LCH4_min_cost_COST_LCH4 = LCH4(3,1);
LH2_min_cost_COST_LCH4 = LCH4(3,2);
RP1_min_cost_COST_LCH4 = LCH4(3,3);
solid_min_cost_COST_LCH4 = LCH4(3,4);
storable_min_cost_COST_LCH4 = LCH4(3,5);

LCH4_min_cost_MASS_LCH4 = LCH4(4,1);
LH2_min_cost_MASS_LCH4 = LCH4(4,2);
RP1_min_cost_MASS_LCH4 = LCH4(4,3);
solid_min_cost_MASS_LCH4 = LCH4(4,4);
storable_min_cost_MASS_LCH4 = LCH4(4,5);

LCH4_min_mass_MASS_LH2 = LH2(1,1);
LH2_min_mass_MASS_LH2 = LH2(1,2);
RP1_min_mass_MASS_LH2 = LH2(1,3);
solid_min_mass_MASS_LH2 = LH2(1,4);
storable_min_mass_MASS_LH2 = LH2(1,5);

LCH4_min_mass_COST_LH2 = LH2(2,1);
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LH2_min_mass_COST_LH2 = LH2(2,2);
RP1_min_mass_COST_LH2 = LH2(2,3);
solid_min_mass_COST_LH2 = LH2(2,4);
storable_min_mass_COST_LH2 = LH2(2,5);

LCH4_min_cost_COST_LH2 = LH2(3,1);
LH2_min_cost_COST_LH2 = LH2(3,2);
RP1_min_cost_COST_LH2 = LH2(3,3);
solid_min_cost_COST_LH2 = LH2(3,4);
storable_min_cost_COST_LH2 = LH2(3,5);

LCH4_min_cost_MASS_LH2 = LH2(4,1);
LH2_min_cost_MASS_LH2 = LH2(4,2);
RP1_min_cost_MASS_LH2 = LH2(4,3);
solid_min_cost_MASS_LH2 = LH2(4,4);
storable_min_cost_MASS_LH2 = LH2(4,5);

LCH4_min_mass_MASS_storable = storable(1,1);
LH2_min_mass_MASS_storable = storable(1,2);
RP1_min_mass_MASS_storable = storable(1,3);
solid_min_mass_MASS_storable = storable(1,4);
storable_min_mass_MASS_storable = storable(1,5);

LCH4_min_mass_COST_storable = storable(2,1);
LH2_min_mass_COST_storable = storable(2,2);
RP1_min_mass_COST_storable = storable(2,3);
solid_min_mass_COST_storable = storable(2,4);
storable_min_mass_COST_storable = storable(2,5);

LCH4_min_cost_COST_storable = storable(3,1);
LH2_min_cost_COST_storable = storable(3,2);
RP1_min_cost_COST_storable = storable(3,3);
solid_min_cost_COST_storable = storable(3,4);
storable_min_cost_COST_storable = storable(3,5);

LCH4_min_cost_MASS_storable = storable(4,1);
LH2_min_cost_MASS_storable = storable(4,2);
RP1_min_cost_MASS_storable = storable(4,3);
solid_min_cost_MASS_storable = storable(4,4);
storable_min_cost_MASS_storable = storable(4,5);

figure;
plot(LCH4_min_mass_MASS_solid, LCH4_min_mass_COST_solid, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')
hold on
plot(LCH4_min_cost_MASS_solid, LCH4_min_cost_COST_solid, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')

plot(LH2_min_mass_MASS_solid, LH2_min_mass_COST_solid, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')
plot(LH2_min_cost_MASS_solid, LH2_min_cost_COST_solid, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')

plot(RP1_min_mass_MASS_solid, RP1_min_mass_COST_solid, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')
plot(RP1_min_cost_MASS_solid, RP1_min_cost_COST_solid, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')

plot(solid_min_mass_MASS_solid, solid_min_mass_COST_solid, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')
plot(solid_min_cost_MASS_solid, solid_min_cost_COST_solid, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')

plot(storable_min_mass_MASS_solid, storable_min_mass_COST_solid, '^', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')
plot(storable_min_cost_MASS_solid, storable_min_cost_COST_solid, '^', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'r')

plot(LCH4_min_mass_MASS_RP1, LCH4_min_mass_COST_RP1, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)
plot(LCH4_min_cost_MASS_RP1, LCH4_min_cost_COST_RP1, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)

plot(LH2_min_mass_MASS_RP1, LH2_min_mass_COST_RP1, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)
plot(LH2_min_cost_MASS_RP1, LH2_min_cost_COST_RP1, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)

plot(RP1_min_mass_MASS_RP1, RP1_min_mass_COST_RP1, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)
plot(RP1_min_cost_MASS_RP1, RP1_min_cost_COST_RP1, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)

plot(solid_min_mass_MASS_RP1, solid_min_mass_COST_RP1, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)
plot(solid_min_cost_MASS_RP1, solid_min_cost_COST_RP1, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)

plot(storable_min_mass_MASS_RP1, storable_min_mass_COST_RP1, '^', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)
plot(storable_min_cost_MASS_RP1, storable_min_cost_COST_RP1, '^', 'MarkerSize', 15, 'LineWidth', 2, 'Color', [0 52 0]/255)

plot(LCH4_min_mass_MASS_LCH4, LCH4_min_mass_COST_LCH4, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')
plot(LCH4_min_cost_MASS_LCH4, LCH4_min_cost_COST_LCH4, 'o', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')

plot(LH2_min_mass_MASS_LCH4, LH2_min_mass_COST_LCH4, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')
plot(LH2_min_cost_MASS_LCH4, LH2_min_cost_COST_LCH4, '*', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')

plot(RP1_min_mass_MASS_LCH4, RP1_min_mass_COST_LCH4, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')
plot(RP1_min_cost_MASS_LCH4, RP1_min_cost_COST_LCH4, 'x', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')

plot(solid_min_mass_MASS_LCH4, solid_min_mass_COST_LCH4, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')
plot(solid_min_cost_MASS_LCH4, solid_min_cost_COST_LCH4, 'diamond', 'MarkerSize', 15, 'LineWidth', 2, 'Color', 'b')

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