
```

function [error] = Calibration

simuParam = [92.1597 84.4488 0 305.4001 111.1565 0 604.8652;
             27.055 122.037 0 -56.4357 320.0625 0 604.8652;
             -119.2146 37.5882 0 -248.9644 208.9060 0 604.8652;
             -119.2146 -37.5882 0 -248.9644 -208.9060 0 604.8652;
             27.055 -122.037 0 -56.4357 -320.0625 0 604.8652;
             92.1597 -84.4488 0 305.4001 -111.1565 0 604.8652];

realParam = [96.6610, 81.7602, 1.0684, 305.2599, 115.0695, 2.6210,
             604.4299;
             22.2476, 125.2511, 0.5530, 55.2814, 322.9819, 4.2181,
             607.2473;
             -122.4519, 36.6453, 4.3547, -244.7954, 208.0087, 3.9365,
             600.4441;
             -120.6859, -34.4565, -4.9014, -252.5755, -211.8783, -3.0128,
             605.9031;
             24.7769, -125.0489, -4.8473, -53.9678, -320.6115, 4.3181,
             604.5251;
             91.3462 -80.9866 0.2515 302.4266 -109.4351 3.3812 600.0616];

IdentifiedValues=lsqnonlin(@costFunction,simuParam);
error = IdentifiedValues - realParam;
end

```

Local minimum possible.

lsqnonlin stopped because the size of the current step is less than the default value of the step size tolerance.

```

ans =

    0.0003    0.0000   -0.0005    0.0011    0.0005   -0.0018    0.0014
   -0.0001   -0.0001   -0.0000   -0.0002    0.0001   -0.0005    0.0004
    0.0007   -0.0002   -0.0023    0.0024    0.0007   -0.0024    0.0002
    0.0001   -0.0004   -0.0005    0.0004   -0.0001    0.0006   -0.0010
   -0.0002   -0.0002   -0.0001   -0.0000   -0.0001    0.0001   -0.0003
    0.0003    0.0001   -0.0004    0.0011    0.0003   -0.0018    0.0014

```

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