

## MINIMIZE PSEUDOSPECTRAL ABSCISSA (SOFTWARE)

```
>> addpath eigopt/  
>> addpath GRANSO/  
>> addpath COMPlib_r1_1/  
>> addpath testexamples/  
>> opts.isprint = 1;
```

```
>> load sec5-2-400by400.mat  
>> sys.A = cell(1,2);  
>> sys.A{1} = A;  
>> sys.A{2} = B*C';  
>> sys.f = @(x)[1 x];  
>> bounds.lb = -3;  
>> bounds.ub = 3;  
>> epsilon = 0.12870882;
```

```
>> [Rz,mu,info] = PSA_subspace_framework(sys,epsilon,bounds,opts);
```

## %%% NN18 EXAMPLE

```
>> [A,B1,B,C1,C,D11,D12,D21,nx,nw,nu,nz,ny] = COMPluib('NN18');
```

```
>> sys.A = cell(1,2);  
>> sys.A{1} = A;  
>> sys.A{2} = B*C;  
>> sys.f = @(x)[1 x];  
>> bounds.lb = -1;  
>> bounds.ub = 1;
```

```
>> [Rz,mu,info] = PSA_subspace_framework(sys,0.2,bounds,opts);
```

### %%% HF2D2 EXAMPLE

```
>> [A,B1,B,C1,C,D11,D12,D21,nx,nw,nu,nz,ny] = COMPluib('HF2D2');
```

```
>> sys.A = cell(1,7);
```

```
>> sys.A{1} = A;
```

```
>> sys.A{2} = B(:,1)*C(1,:);
```

```
>> sys.A{3} = B(:,1)*C(2,:);
```

```
>> sys.A{4} = B(:,1)*C(3,:);
```

```
>> sys.A{5} = B(:,2)*C(1,:);
```

```
>> sys.A{6} = B(:,2)*C(2,:);
```

```
>> sys.A{7} = B(:,2)*C(3,:);
```

```
>> sys.f = @(x)[1 x(1) x(2) x(3) x(4) x(5) x(6)];
```

```
>> bounds.lb = [-1; -1; -1; -1; -1; -1];
```

```
>> bounds.ub = [1; 1; 1; 1; 1; 1];
```

```
>> [Rz3,mu3,inf3] = PSA_subspace_framework(sys,0.2,bounds,opts);
```