#Jenny

Finally I get this ebook, thanks for all these I can get now!

#Rio

Cool! I'am really happy

#Markus Jensen

I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

#Hun Tsu

wtf this great ebook for free?!

#Che Salsa

My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler

so many fake sites. this is the first one which worked! Many thanks

2.5 First problem and first MATLAB code 27

First we define vector `prescribedDof`, corresponding to the prescribed degrees of freedom. Then we define a vector containing all `activeDof` degrees of freedom, by setting up the difference between all degrees of freedom and the prescribed ones. The MATLAB function `setdiff` allows this operation.

```
% boundary conditions and solution
% prescribed dofs
prescribedDof=[1;3;4];
% free Dof : activeDof
activeDof=setdiff([1:numberNodes]',[prescribedDof]);
% solution
displacements=stiffness(activeDof,activeDof)\force(activeDof);
```

Note that the solution is performed with the active lines and columns only, by using a **mask**.

```
displacements=stiffness(activeDof,activeDof)\force(activeDof);
```

Because we are in fact calculating the solution for the active degrees of freedom only, we can place this solution in a vector `displacements1` that contains also the prescribed (zero) values.

```
% positioning all displacements
displacements1=zeros(numberNodes,1);
displacements1(activeDof)=displacements;
```

The vector `displacements1` is then a four-position vector with all displacements. We then call function `outputDisplacementsReactions.m`, to output displacements and reactions, as

```
%.....................................................................

function outputDisplacementsReactions...
    (displacements,stiffness,GDof,prescribedDof)

% output of displacements and reactions in
% tabular form

% GDof: total number of degrees of freedom of
% the problem

% displacements
disp('Displacements')
%displacements=displacements1;
jj=1:GDof; format
[jj' displacements]
```

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Boundary Element Method Matlab Code