

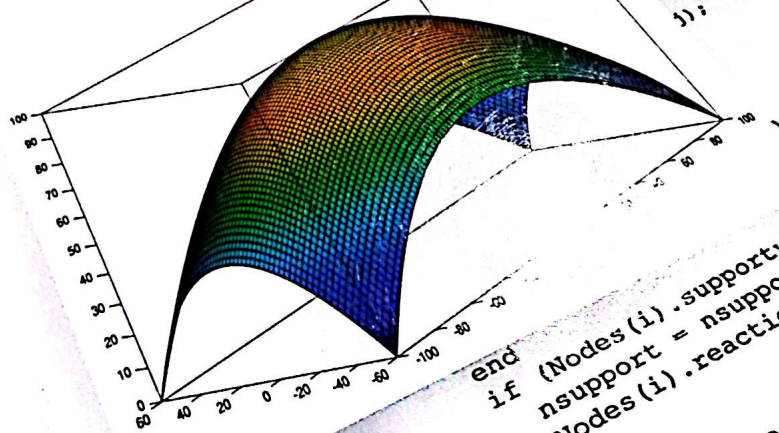
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Complex Variables for Engineers with Mathematica

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function [outNodes, outMembers] = solveTruss(nodes, members)
n = size(nodes,2);
if (m/3) < 2*n
disp('Unstable');
outNodes = 0; outMembers = 0; return
elseif (m/3) > 2*n
disp('statically indeterminate');
outNodes = 0; outMembers = 0; return
else
for i = 1:n
end
A = zeros(2*n, 2*n); loads = zeros(2*n,1); nsupport = 0;
for i = 1:n
for j = 1:lim
if Members(i) ~= memba
n1 = i; n2 = memba
elseif Members(i) == memba
n1 = i; n2 = memba
else
x1 = Nodes(n1).x; y1 =
x2 = Nodes(n2).x; y2 =
L = sqrt((x2-x1)^2 + (y2-y1)^2);
A(2*i-1,j) = (x2-x1)/L;
A(2*i,j) = (y2-y1)/L;
end
end
if (Nodes(i).supportx == 0)
nsupport = nsupport + 1;
A(2*i-1,m+nsupport) = 1;

```



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end
if (Nodes(i).support == 1)
    nsupport = nsupport+1;
    Nodes(i).reactiony = forces(m+nsupport);
end
end
outNodes = Nodes;
outMembers = Members;
disp('Solved successfully.')
end

```

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