```
function ElemStiffness = NumInt(B,detJ,choice)
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% $Code Version: 1.0$
% This function performs numerical integration of the desired choice
% Output : ElemStiffness - Outputs the integrated Element Stiffness Matrix
   [~,n,num_IntPts] = size(B);
   [~,Quad_wts] = IntRules();
   ElemStiffness = zeros(n);
   if choice == 3
       for i=1:num IntPts
          ElemStiffness = ElemStiffness + B(:,:,i)'*B(:,:,i)*detJ(i)*Quad_wts(i);
       end
   end
   if choice == 2
end
```

Published with MATLAB® R2021a