```
function d_sub = DiffusionIntegrator(diff_coeff,B_zn,LocGridArr)
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% $RIN : 662028006$ $Date : November 21, 2021$
% $Code Version: 1.0$
% This function performs the weak form of diffusion integration
% Inputs : diff_coeff - coefficient matrix or scalar integration
                         constants
                       - Shape Function gradients evaluated at integration
용
          B_zn
                         points
용
          LocGridArr - The Grid Locations of the nodes present in the
                        element being integrated
                     - The diffusion element stiffness sub-matrix
% Outputs: d sub
   choice = 3; % diffusion
    [B,detJ] = ElementTransformation(B zn,LocGridArr,choice);
   d sub = diff coeff*NumInt(B,detJ,choice);
end
```

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