```
% Results:
plotModelCont(NodeTable, Node_U_V(:,1), ix, numel, nen, 1, 1, 2, 'Displacement Con
plotModelCont(NodeTable, Node_U_V(:,2), ix, numel, nen, 1, 2, 2, 'Displacement Con
plotModel(NodeTable2, ix, numel, nen, 2, 1, 1, 'Deformed Configuration', 'y', 'y')
plotModel(NodeTable, ix, numel, nen, 2, 1, 1, 'Un-Deformed Configuration', 'n', 'n
figure(3)
plot(time, Stress(:,1), time, Stress(:,2), time, Stress(:,3), 'LineWidth',1.2)
x111 = xlabel('Time (t)','FontWeight','bold','FontSize',18);
set(xl11, 'Interpreter', 'latex')
yll1=ylabel('Stress','FontWeight','bold','FontSize',18);
set(yll1,'Interpreter','latex')
legend({'\sigma_1_1','\sigma_2_2','\sigma_1_2'},'FontWeight','bold','FontSize',14)
title('Stress at each load step', 'FontWeight', 'bold', 'FontSize', 22)
grid on
figure(4)
plot(Strain(:,1),Stress(:,1),Strain(:,2),Stress(:,2),Strain(:,3),Stress(:,3),'Line
x12 = xlabel('Strain','FontWeight','bold','FontSize',22);
set(xl2,'Interpreter','latex')
yl2 = ylabel('Stress','FontWeight','bold','FontSize',22);
set(yl2,'Interpreter','latex')
legend({'\sigma_1_1','\sigma_2_2','\sigma_1_2'},'FontWeight','bold','FontSize',14)
title('Stress-Strain','FontWeight','bold','FontSize',22)
grid on
figure(5)
plot(time, dn(:,3),'--',time,dn(:,4),'LineWidth',1.8)
x13 = xlabel('Time (t)','FontWeight','bold','FontSize',22);
set(xl3,'Interpreter','latex');
y13 = ylabel('Displacement (d)', 'FontWeight', 'bold', 'FontSize', 22);
set(yl3,'Interpreter','latex');
legend({'d_x','d_y'},'FontWeight','bold','FontSize',14)
title('Displacement of the Node -- (3) ', 'FontWeight', 'bold', 'FontSize', 22)
grid on
figure(6)
plot(time, vn(:,3),'--',time,vn(:,4),'LineWidth',1.8)
x13 = xlabel('Time (t)','FontWeight','bold','FontSize',22);
set(x13,'Interpreter','latex');
y13 = ylabel('Velocity (v)','FontWeight','bold','FontSize',22);
set(yl3,'Interpreter','latex');
legend({'v_x','v_y'},'FontWeight','bold','FontSize',14)
title('Velocities of the Node -- (3)', 'FontWeight', 'bold', 'FontSize', 22)
grid on
```

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