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---------- BEAMDYN V1.00.00 Driver INPUT FILE -------------------------------------
Dynamic analysis of rotating NREL 5MW blade under gravity force
---------- SIMULATION CONTROL --------------------------------------------------------
0              t_initial    - Starting time of simulation  (s)
30.0           t_final      - Ending time of simulation    (s)
2E-03          dt           - Time increment size          (s)
---------- GRAVITY PARAMETER --------------------------------------------------------
0.0            Gx           - Component of gravity vector along X direction (m/s^2)
-9.8           Gy           - Component of gravity vector along Y direction (m/s^2)
0.0            Gz           - Component of gravity vector along Z direction (m/s^2)
---------- FRAME PARAMETER --------------------------------------------------------
0.0            GlbPos(1)    - Component of position vector of the reference blade frame along X direction (m)
0.0            GlbPos(2)    - Component of position vector of the reference blade frame along Y direction (m)
1.0            GlbPos(3)    - Component of position vector of the reference blade frame along Z direction (m)
----The following 3 by 3 matrix is the direction cosine matirx ,GlbDCM(3,3),
----relates global frame to reference blade frame
1.000E+00      0.000E+00    0.000E+00
0.000E+00      1.000E+00    0.000E+00
0.000E+00      0.000E+00    1.000E+00
---------- ROOT VELOCITY PARAMETER --------------------------------------------------------
1.0006         RootVel(4)   - Component of angular velocity vector of the beam root about X axis (rad/s)
0.0            RootVel(5)   - Component of angular velocity vector of the beam root about Y axis (rad/s)
0.0            RootVel(6)   - Component of angular velocity vector of the beam root about Z axis (rad/s)
---------- APPLIED FORCE --------------------------------------------------------
0.0            DistrLoad(1) - Component of distributed force vector along X direction (N/m)
0.0            DistrLoad(2) - Component of distributed force vector along Y direction (N/m)
0.0            DistrLoad(3) - Component of distributed force vector along Z direction (N/m)
0.0            DistrLoad(4) - Component of distributed moment vector along X direction (N-m/m)
0.0            DistrLoad(5) - Component of distributed moment vector along Y direction (N-m/m)
0.0            DistrLoad(6) - Component of distributed moment vector along Z direction (N-m/m)
0.0            TipLoad(1)   - Component of concentrated force vector at blade tip along X direction (N)
0.0            TipLoad(2)   - Component of concentrated force vector at blade tip along Y direction (N)
0.0            TipLoad(3)   - Component of concentrated force vector at blade tip along Z direction (N)
0.0            TipLoad(4)   - Component of concentrated moment vector at blade tip along X direction (N-m)
0.0            TipLoad(5)   - Component of concentrated moment vector at blade tip along Y direction (N-m)
0.0            TipLoad(6)   - Component of concentrated moment vector at blade tip along Z direction (N-m)
---------- PRIMARY INPUT FILE --------------------------------------------------------
"BeamDyn_Input_5MW.inp"     InputFile    - Name of the primary input file
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