GetNodeCoord()

Arguments

Node: object

Computes

N/A

Returns

node\_coord: 1x3 vector

AssignDOF()

Arguments

Node: object

Computes

node\_dof: 6x1 vector

Returns

N/A

Node Class Constructor

Arguments

node\_number: double

node\_coord 1x3 vector

Computes

node\_coord: 1x3 vector

node\_dof: 6x1 vector

node\_number: double

Calls

AssignDOF()

Returns

N/A

**Node Class**

Properties

node\_coord: 1x3 vector

node\_dof: 6x1 vector

node\_number: double

Public Methods

Constructor

GetNodeCoord()

GetNodeDOF()

Private Methods

AssignDOF()

GetNodeDOF()

Arguments

Node: object

Computes

N/A

Returns

node\_dof: 6x1 vector

**Element Class**

Properties

elementNodes: 1x2 vector

A: double

Izz: double

Iyy: double

J: double

Zzz: double

Zyy: double

E: double

v: double

webdir: 1x3 vector

distribLoad: 1x3 vector

length: double

gamma: 12x12 matrix

localStiffness: 12x12 matrix

globalStiffness: 12x12 matrix

element\_dof: 12x1 vector

Public Methods

Constructor

GetNodeCoord()

GetNodeDOF()

Private Methods

AssignDOF()

Node Class Constructor

Arguments

node\_number: double

node\_coord 3x1 vector

Computes

node\_coord: 3x1 vector

node\_dof: 6x1 vector

node\_number: double

Calls

AssignDOF()

Returns

N/A

AssignDOF()

Arguments

Node: object

Computes

node\_dof: 6x1 vector

Returns

N/A

GetNodeCoord()

Arguments

Node: object

Computes

N/A

Returns

node\_coord: 3x1 vector

GetNodeDOF()

Arguments

Node: object

Computes

N/A

Returns

node\_dof: 6x1 vector