DNV Software Products : Genie Illustrated Report, looping over LoadCases

This page last changed on jan 29, 2009 by atwe.

This scripts loops over all the loadcases and makes two illustrations of each loadcase, both as "Default Display" and "Mesh - All"

```
//This scripts loops over all the loadcases and makes two illustrations of each loadcase, both
 as "Default Display" and "Mesh - All"

// Size of produced plots

var hsize = 800;
var vsize = 600;

// THIS WILL DESTROY ALL MODEL VIEWS !!!
// Delete all existing model views
for(var object in ModelObjects) {

    // Limit the search to named model views
    if(object.supportsType(typeModelView)) {
        print(object.name);
        Delete(object);
    }
}

Test_Report = Report("Showing illustration in report, looping over all loadcases");
var main_title = "Loadcases";
Test_Report.add( Chapter(main_title) );
Test_Report.back.add( Chapter("Loadcases plot") );

ModelView_temp = ModelView();
//
ModelView_temp.addElement(DisplayConfiguration("Mesh - All"));
ModelView_temp.addElement(VisibleModel());
ModelView_temp.visibleModel.showAll = true;
ModelView_temp.addElement(ColorCode());
ModelView_temp.name =  "ModelView_All_Loads";


// Iterate over all loadcases in the model
for(var object in ModelObjects) {

    //  Limit the search to loadcases
    if(object.supportsType(typeBasicState)) {

        print(object.name);

        Test_Report.back.add( Chapter("Loads for loadcase : " + object.name) );

        object.setCurrent();

        ModelView_All_Loads.addElement(DisplayConfiguration("Default display"));
        ModelView_All_Loads.addElement(VisibleModel());
        ModelView_All_Loads.visibleModel.showAll = true;
        ModelView_All_Loads.activate();

        var title = ModelView_All_Loads.name  + "_" + object.name();
        var filename = title + ".png";

        Graphics.fitModel();
        Graphics.saveImage(filename,hsize,vsize);
        Test_Report.back.back.add( Figure(title,filename) );

        ModelView_All_Loads.addElement(DisplayConfiguration("Mesh - All"));
```

```
        ModelView_All_Loads.addElement(VisibleModel());
        ModelView_All_Loads.visibleModel.showAll = true;
        ModelView_All_Loads.activate();

        title = ModelView_All_Loads.name  + "_Mesh_" + object.name();
        filename = title + ".png";

        Graphics.fitModel();
        Graphics.saveImage(filename,hsize,vsize);
        Test_Report.back.back.add( Figure(title,filename) );

    }
}


// Save report to MS Word XML

Test_Report.saveAs("Illustraded_report.doc",mrWordXML);
```