

```
% clean workspace
clearvars;

% build suite from test files
suite = testsuite({'removeFilesFromDirTest', 'rotate3DVectorTest', ...
    'generateDipoleRotationMomentsTest', ...
    'generateSensorArraySquareGridTest', ...
    'computeDipoleH0NormTest', ...
    'computeDipoleHFieldTest', ...
    'tiltRotationTest'});

% run tests
results = run(suite);

% show results
disp(results)
disp(table(results))
cd ..
```

```
Running removeFilesFromDirTest
..
Done removeFilesFromDirTest
-----

Running rotate3DVectorTest
....
Done rotate3DVectorTest
-----

Running generateDipoleRotationMomentsTest
...
Done generateDipoleRotationMomentsTest
-----

Running generateSensorArraySquareGridTest
....
Done generateSensorArraySquareGridTest
-----

Running computeDipoleH0NormTest
.
Done computeDipoleH0NormTest
-----

Running computeDipoleHFieldTest
.....
Done computeDipoleHFieldTest
-----

Running tiltRotationTest
..
Done tiltRotationTest
-----

1x22 TestResult array with properties:

    Name
    Passed
    Failed
    Incomplete
    Duration
    Details

Totals:
    22 Passed, 0 Failed, 0 Incomplete.
    1.4049 seconds testing time.
```

| Name | Passed | Failed | Incomplete | Duration | Details |
|---|--------|--------|------------|----------|--------------|
| {'removeFilesFromDirTest/Test1_DeleteAllFiles'} | true | false | false | 0.075 | {1x1 struct} |
| {'removeFilesFromDirTest/Test2_DeleteWithPattern'} | true | false | false | 0.046689 | {1x1 struct} |
| {'rotate3DVectorTest/Test1_OutputDimensions'} | true | false | false | 0.11348 | {1x1 struct} |
| {'rotate3DVectorTest/Test2_RotateVectorsInX_axes'} | true | false | false | 0.008738 | {1x1 struct} |
| {'rotate3DVectorTest/Test3_RotateVectorsInY_axes'} | true | false | false | 0.008764 | {1x1 struct} |
| {'rotate3DVectorTest/Test4_RotateVectorsInZ_axes'} | true | false | false | 0.006091 | {1x1 struct} |
| {'generateDipoleRotationMomentsTest/Test1_OutputDimensions'} | true | false | false | 0.13145 | {1x1 struct} |
| {'generateDipoleRotationMomentsTest/Test2_DownSampling'} | true | false | false | 0.007222 | {1x1 struct} |
| {'generateDipoleRotationMomentsTest/Test3_PhaseShift'} | true | false | false | 0.008659 | {1x1 struct} |
| {'generateSensorArraySquareGridTest/Test1_OutputDimensions'} | true | false | false | 0.12205 | {1x1 struct} |
| {'generateSensorArraySquareGridTest/Test2_EqualXAndYDistances'} | true | false | false | 0.014129 | {1x1 struct} |
| {'generateSensorArraySquareGridTest/Test3_ConstantZDistances'} | true | false | false | 0.011084 | {1x1 struct} |
| {'generateSensorArraySquareGridTest/Test3_PositionShiftInXAndYDirection'} | true | false | false | 0.007205 | {1x1 struct} |

| | | | | | | |
|--|---|------|-------|-------|----------|--------------|
| {'computeDipoleH0NormTest/Test1_PositiveScalarFactor'} | } | true | false | false | 0.13903 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test1_OutputDimensions'} | } | true | false | false | 0.30618 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test2_CenterOfField'} | } | true | false | false | 0.017691 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test3_Magnetization'} | } | true | false | false | 0.019976 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test4_Imprinting'} | } | true | false | false | 0.012584 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test5_Symmetry'} | } | true | false | false | 0.02123 | {1x1 struct} |
| {'computeDipoleHFieldTest/Test6_UnitsMilliKilo'} | } | true | false | false | 0.043362 | {1x1 struct} |
| {'tiltRotationTest/Test1_RotationWithoutTilt'} | } | true | false | false | 0.27578 | {1x1 struct} |
| {'tiltRotationTest/Test2_RotationWithTilt'} | } | true | false | false | 0.008487 | {1x1 struct} |

