|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  |  |  | | | | **δσ [%]** | | | |
| **Number of deformation modes** | | | | **Number of deformation modes** | | | |
| **Node** | **30** | **50** | **100** | **200** | **30** | **50** | **100** | **200** |
| **CASE 1A** | | | | | | | | | |
| **1** | 11.55 | 1.97 | 1.99 | 2.04 | 1.98 | 82.90 | 82.78 | 82.36 | 82.85 |
| **2** | 2.77 | 0.40 | 0.56 | 0.62 | 0.58 | 85.66 | 79.91 | 77.62 | 79.12 |
| **3** | 7.99 | 3.14 | 3.16 | 3.11 | 3.00 | 60.68 | 60.50 | 61.06 | 62.51 |
| **4** | 19.40 | 2.07 | 1.46 | 1.45 | 1.44 | 89.31 | 92.46 | 92.50 | 92.55 |
| **5** | 33.14 | 13.66 | 14.59 | 14.28 | 14.90 | 58.79 | 55.99 | 56.90 | 55.03 |
| **6** | 22.55 | 9.46 | 7.92 | 9.25 | 9.72 | 58.05 | 64.87 | 58.97 | 56.90 |
| **7** | 2.02 | 0.76 | 0.69 | 0.72 | 0.63 | 62.55 | 65.68 | 64.33 | 68.78 |
| **8** | 12.28 | 2.94 | 3.28 | 3.56 | 3.44 | 76.09 | 73.25 | 70.97 | 72.00 |
| **9** | 7.84 | 1.43 | 1.03 | 0.93 | 0.92 | 81.80 | 86.90 | 88.08 | 88.21 |
| **MEAN** | - | - | - | - | - | **72.87** | **73.59** | **72.53** | **73.10** |
| **CASE 2A** | | | | | | | | | |
| **1** | 11.03 | 0.93 | 0.73 | 0.80 | 0.80 | 91.56 | 93.37 | 92.73 | 92.75 |
| **2** | 0.83 | 0.72 | 0.92 | 0.93 | 0.87 | 12.70 | 11.53 | 12.07 | 4.87 |
| **3** | 10.52 | 1.65 | 0.65 | 0.82 | 0.75 | 84.30 | 93.84 | 92.17 | 92.84 |
| **4** | 7.22 | 1.00 | 0.58 | 0.89 | 0.90 | 86.21 | 92.02 | 87.62 | 87.61 |
| **5** | 5.07 | 2.77 | 2.37 | 1.99 | 1.98 | 45.39 | 53.29 | 60.72 | 60.95 |
| **6** | 9.21 | 5.27 | 9.83 | 10.11 | 8.93 | 42.78 | 6.67 | 9.71 | 3.07 |
| **7** | 6.30 | 1.47 | 1.31 | 1.29 | 1.25 | 76.60 | 79.19 | 79.47 | 80.21 |
| **8** | 4.86 | 4.47 | 5.08 | 4.39 | 4.03 | 8.07 | 4.42 | 9.63 | 17.00 |
| **9** | 10.45 | 1.64 | 1.24 | 1.35 | 1.27 | 84.33 | 88.19 | 87.05 | 87.82 |
| **MEAN** | - | - | - | - | - | **59.11** | **58.06** | **59.02** | **58.57** |
| **CASE 3A** | | | | | | | | | |
| **1** | 1.00 | 0.78 | 0.97 | 0.94 | 0.95 | 22.21 | 2.80 | 6.49 | 4.76 |
| **2** | 0.54 | 0.40 | 0.29 | 0.31 | 0.34 | 26.98 | 46.79 | 43.21 | 36.63 |
| **3** | 1.49 | 2.51 | 2.08 | 1.96 | 1.91 | 68.08 | 39.08 | 31.28 | 28.06 |
| **4** | 1.30 | 1.55 | 0.94 | 0.94 | 0.96 | 18.79 | 27.90 | 27.64 | 26.30 |
| **5** | 6.40 | 4.66 | 5.14 | 4.69 | 4.90 | 27.26 | 19.76 | 26.71 | 23.41 |
| **6** | 4.12 | 2.40 | 2.77 | 4.61 | 2.89 | 41.70 | 32.73 | 11.88 | 29.92 |
| **7** | 0.69 | 0.84 | 0.78 | 0.77 | 0.78 | 22.32 | 13.33 | 11.90 | 12.86 |
| **8** | 3.20 | 2.11 | 2.70 | 2.96 | 2.42 | 34.07 | 15.54 | 7.66 | 24.33 |
| **9** | 1.15 | 0.94 | 0.94 | 1.00 | 0.97 | 18.31 | 18.48 | 13.50 | 15.49 |
| **MEAN** | - | - | - | - | - | **31.08** | **24.05** | **20.03** | **22.42** |