|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Method Name | Gamma | Beta | Maximum Displacement | Maximum Velocity | Maximum Acceleration | Time Step |
| Linear Acceleration Method | 1 / 2 | 1 / 6 | 0.0035 | 0.8468 | 28534 | 0.000001 |
| Average Acceleration Method | 1 / 2 | 1 / 4 | 0.0036 | 0.6924 | 19317 | 0.0001 |
| Algorithmically Damped Method | 0.55 | 0.2756 | 0.0035 | 0.4995 | 2815.3 | 0.0001 |
| Hilber-Hughes-Taylor Method  (α = - 0.25) | 0.75 | 0.3906 | 0.0035 | 0.4215 | 918.6227 | 0.0001 |
| Fox-Godwin Method | 1 / 2 | 1 / 2 | 0.0035 | 0.8453 | 28648 | 0.000001 |

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Method Name | Gamma | Beta | Maximum Displacement | Maximum Velocity | Maximum Acceleration | Time Step |
| Linear Acceleration Method | 1 / 2 | 1 / 6 | 0.004 | 2.4634 | 1.13e+05 | 0.000001 |
| Average Acceleration Method | 1 / 2 | 1 / 4 | 0.0042 | 1.8774 | 7.5619e+04 | 0.0001 |
| Algorithmically Damped Method | 0.55 | 0.2756 | 0.0040 | 0.7171 | 2.8389e+03 | 0.0001 |
| Hilber-Hughes-Taylor Method  (α = - 0.25) | 0.75 | 0.3906 | 0.0039 | 0.5090 | 1.4206e+03 | 0.0001 |
| Fox-Godwin Method | 1 / 2 | 1 / 2 | 0.0040 | 2.4388 | 1.2949e+05 | 0.000001 |