ADEPOJU MARY ABIMBOLA

CIVIL ENGINEERING

17/ENG03/004

HYDROLOGY

ENG 302

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1 |  | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | Location, | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | **i** | | | | | | | | | | | | | | | | | | | | | | | |  |
|  | Time, **t** (day) | | |  | 0 | | 1 | | | | | 2 | | | | 3 | | | | | 4 | | 5 | | 6 |
|  | 0 | 3.2 | | 3.3 | | | | | 3.5 | | | | 3.52 | | | | | 3.63 | | 3.93 | | 4.7 |
|  | 1 | 3.32 | | 3.21942955 | | | | | 3.02743 | | | | 3.02148 | | | | | 2.92884 | | 2.65739 | | 1.94565 |
|  | 2 | 3.44 | | 3.53427922 | | | | | 3.71182 | | | | 3.69808 | | | | | 3.76878 | | 4.00853 | | 4.66143 |
|  | 3 | 3.56 | | 3.46498716 | | | | | 3.29449 | | | | 3.31974 | | | | | 3.26184 | | 3.0434 | | 2.43664 |
|  | 4 | 3.68 | | 3.76888013 | | | | | 3.92585 | | | | 3.88331 | | | | | 3.92348 | | 4.11682 | | 4.67565 |
|  | 5 | 3.8 | | 3.71023225 | | | | | 3.55941 | | | | 3.61119 | | | | | 3.57993 | | 3.4019 | | 2.8794 |
|  | 6 | 3.92 | | 4.00378464 | | | | | 4.14193 | | | | 4.07501 | | | | | 4.09215 | | 4.2505 | | 4.73389 |
| dx | | 1125 | k | | | c0 | | | | c1 | c2 | | | |  | | | |
| dt | | 86400 | 1250 | | | 0.971477 | | | | 1 | -0.97148 | | | |  | | | |
| c | | 0.9 |  | | |  | | | |  |  | | | |  | | | |
| x | | 0.5 |  | | |  | | | |  |  | | | |  | | | |
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| 2 | |  |  | | |  | | |  | | | | |  | | | |  | | | |  | |
|  | | time | i | | | c0qi^t+1 | | | c1qi^t | | | | | c2qi+1^t | | | | o | | | |  | |
|  | | 6 | 10 | | |  | | |  | | | | |  | | | | 10 | | | |  | |
|  | | 12 | 30 | | | 3.747017 | | | 3.524264121 | | | | | 5.22673 | | | | 12.49801 | | | |  | |
|  | | 18 | 68 | | | 8.493238 | | | 10.57279236 | | | | | 6.532373 | | | | 25.5984 | | | |  | |
|  | | 24 | 50 | | | 6.245028 | | | 23.96499602 | | | | | 13.3796 | | | | 43.58962 | | | |  | |
|  | | 30 | 40 | | | 4.996022 | | | 17.6213206 | | | | | 22.78312 | | | | 45.40046 | | | |  | |
|  | | 36 | 31 | | | 3.871917 | | | 14.09705648 | | | | | 23.7296 | | | | 41.69857 | | | |  | |
|  | | 42 | 23 | | | 2.872713 | | | 10.92521877 | | | | | 21.79472 | | | | 35.59265 | | | |  | |
|  | | 48 | 30 | | | 3.747017 | | | 8.105807478 | | | | | 18.60332 | | | | 30.45614 | | | |  | |
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| 2b | |  |  | | |  | |  | | | | |  | | | |  | | |
|  | | time | i | | | c0qi^t+1 | | c1qi^t | | | | | c2qi+1^t | | | | o | | |
|  | | 6 | 10 | | |  | |  | | | | |  | | | | 10 | | |
|  | | 12 | 30 | | | 6.428571 | | 2.142857143 | | | | | 5.714286 | | | | 14.28571 | | |
|  | | 18 | 68 | | | 14.57143 | | 6.428571429 | | | | | 8.163265 | | | | 29.16327 | | |
|  | | 24 | 50 | | | 10.71429 | | 14.57142857 | | | | | 16.66472 | | | | 41.95044 | | |
|  | | 30 | 40 | | | 8.571429 | | 10.71428571 | | | | | 23.97168 | | | | 43.25739 | | |
|  | | 36 | 31 | | | 6.642857 | | 8.571428571 | | | | | 24.71851 | | | | 39.9328 | | |
|  | | 42 | 23 | | | 4.928571 | | 6.642857143 | | | | | 22.81874 | | | | 34.39017 | | |
|  | | 48 | 30 | | | 6.428571 | | 4.928571429 | | | | | 19.65153 | | | | 31.00867 | | |
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