|  |  |  |  |
| --- | --- | --- | --- |
| **Load** | **ALOHA** | | |
|  | Channel Utilisation | Received Frames | Collided Frames |
| 0.1 | 0.0839 | 836 | 173 |
| 0.25 | 0.1545 | 1544 | 901 |
| 0.4 | 0.1844 | 1844 | 2125 |
| 0.55 | 0.1830 | 1830 | 3577 |
| 0.7 | 0.1816 | 1814 | 4927 |
| 0.85 | 0.1686 | 1686 | 6367 |
| 1 | 0.1472 | 1472 | 7869 |
| 1.25 | 0.1224 | 1223 | 10293 |
| 1.5 | 0.0897 | 897 | 12584 |
| 1.75 | 0.0689 | 689 | 14743 |
| 2 | 0.0471 | 471 | 16886 |

Simulation 2

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Load** | **ALOHA – SEED 100** | | | **ALOHA – SEED 256** | | |
|  | Channel Utilisation | Received Frames | Collided Frames | Channel Utilisation | Received Frames | Collided Frames |
| 0.1 | 0.0776 | 842 | 141 | 0.0726 | 828 | 163 |
| 0.25 | 0.1307 | 1661 | 850 | 0.1294 | 1601 | 890 |
| 0.4 | 0.1428 | 1985 | 1960 | 0.1418 | 1980 | 1937 |
| 0.55 | 0.1409 | 2177 | 3143 | 0.1408 | 2088 | 3251 |
| 0.7 | 0.1254 | 2134 | 4573 | 0.1353 | 2232 | 4437 |
| 0.85 | 0.1221 | 2199 | 5844 | 0.1153 | 2127 | 5787 |
| 1 | 0.1083 | 2074 | 7201 | 0.1041 | 1937 | 7353 |
| 1.25 | 0.0850 | 1787 | 9608 | 0.0820 | 1767 | 9546 |
| 1.5 | 0.0635 | 1524 | 11785 | 0.0658 | 1539 | 11758 |
| 1.75 | 0.0459 | 1225 | 14157 | 0.0507 | 1260 | 13961 |
| 2 | 0.0373 | 1085 | 16147 | 0.0344 | 1025 | 16189 |

Simulation 3

|  |  |  |  |
| --- | --- | --- | --- |
| **Load** | **S-ALOHA** |  |  |
|  | Channel Utilisation | Received Frames | Collided Frames |
| 0.1 | 0.0915 | 914 | 93 |
| 0.25 | 0.1821 | 1821 | 591 |
| 0.4 | 0.2598 | 2598 | 1301 |
| 0.55 | 0.3031 | 3031 | 2253 |
| 0.7 | 0.3346 | 3346 | 3206 |
| 0.85 | 0.3411 | 3411 | 4365 |
| 1 | 0.3431 | 3431 | 5513 |
| 1.25 | 0.3295 | 3294 | 7584 |
| 1.5 | 0.3157 | 3157 | 9533 |
| 1.75 | 0.2978 | 2978 | 11437 |
| 2 | 0.2703 | 2702 | 13339 |