

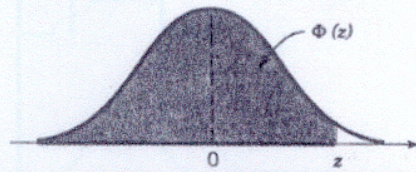
ANEXO C

Tabla 1: Números aleatorios

| | | | | | | | | | | | | | | | | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| 10 | 09 | 73 | 25 | 33 | 76 | 52 | 01 | 35 | 86 | 34 | 67 | 35 | 48 | 76 | 80 | 95 | 90 | 91 | 17 | 39 | 29 | 27 | 49 | 45 |
| 37 | 54 | 20 | 48 | 05 | 64 | 89 | 47 | 42 | 96 | 24 | 80 | 52 | 40 | 37 | 20 | 63 | 61 | 04 | 02 | 00 | 82 | 29 | 16 | 65 |
| 08 | 42 | 26 | 89 | 53 | 19 | 64 | 50 | 93 | 03 | 23 | 20 | 90 | 25 | 60 | 15 | 95 | 33 | 47 | 64 | 35 | 08 | 03 | 36 | 04 |
| 99 | 01 | 90 | 25 | 29 | 09 | 37 | 67 | 07 | 15 | 38 | 31 | 13 | 11 | 65 | 88 | 67 | 67 | 43 | 97 | 04 | 43 | 62 | 76 | 50 |
| 12 | 80 | 79 | 99 | 70 | 80 | 15 | 73 | 61 | 47 | 64 | 03 | 23 | 66 | 53 | 98 | 95 | 11 | 68 | 77 | 12 | 17 | 17 | 68 | 33 |
| 66 | 06 | 57 | 47 | 17 | 34 | 07 | 27 | 68 | 50 | 36 | 69 | 73 | 61 | 70 | 65 | 81 | 33 | 98 | 85 | 11 | 19 | 92 | 91 | 70 |
| 31 | 06 | 01 | 08 | 05 | 45 | 57 | 18 | 24 | 06 | 35 | 30 | 34 | 26 | 14 | 86 | 79 | 90 | 74 | 39 | 23 | 40 | 30 | 97 | 33 |
| 85 | 26 | 97 | 76 | 02 | 02 | 05 | 16 | 56 | 92 | 68 | 66 | 57 | 48 | 18 | 73 | 05 | 38 | 52 | 47 | 18 | 62 | 38 | 85 | 75 |
| 63 | 57 | 33 | 21 | 35 | 05 | 32 | 54 | 70 | 48 | 90 | 55 | 35 | 75 | 48 | 28 | 46 | 82 | 87 | 09 | 83 | 49 | 12 | 56 | 24 |
| 73 | 79 | 64 | 57 | 53 | 03 | 52 | 96 | 47 | 78 | 35 | 80 | 83 | 42 | 82 | 60 | 93 | 52 | 03 | 44 | 35 | 27 | 38 | 84 | 33 |
| 98 | 52 | 01 | 77 | 67 | 14 | 90 | 56 | 86 | 07 | 22 | 10 | 94 | 05 | 58 | 60 | 97 | 09 | 34 | 33 | 50 | 50 | 07 | 39 | 98 |
| 11 | 80 | 50 | 54 | 31 | 39 | 80 | 82 | 77 | 32 | 50 | 72 | 56 | 82 | 48 | 29 | 40 | 52 | 42 | 01 | 52 | 77 | 56 | 78 | 51 |
| 83 | 45 | 29 | 96 | 34 | 06 | 28 | 89 | 80 | 83 | 13 | 74 | 67 | 00 | 78 | 18 | 47 | 54 | 06 | 10 | 68 | 71 | 17 | 78 | 11 |
| 88 | 68 | 54 | 02 | 00 | 86 | 50 | 75 | 84 | 01 | 36 | 76 | 66 | 79 | 51 | 90 | 36 | 47 | 64 | 93 | 29 | 60 | 91 | 10 | 62 |
| 99 | 59 | 46 | 73 | 48 | 87 | 51 | 76 | 49 | 69 | 91 | 82 | 60 | 89 | 28 | 93 | 78 | 56 | 13 | 68 | 23 | 47 | 83 | 41 | 11 |
| 65 | 48 | 11 | 76 | 74 | 17 | 46 | 85 | 09 | 50 | 58 | 04 | 77 | 69 | 74 | 73 | 03 | 95 | 71 | 86 | 40 | 21 | 81 | 65 | 44 |
| 80 | 12 | 43 | 56 | 35 | 17 | 72 | 70 | 80 | 15 | 45 | 31 | 82 | 23 | 74 | 21 | 11 | 57 | 82 | 53 | 14 | 38 | 55 | 37 | 60 |
| 74 | 35 | 09 | 98 | 17 | 77 | 40 | 27 | 72 | 14 | 43 | 23 | 60 | 02 | 10 | 45 | 52 | 16 | 42 | 37 | 96 | 28 | 60 | 26 | 52 |
| 69 | 91 | 62 | 68 | 03 | 66 | 25 | 22 | 91 | 48 | 38 | 93 | 68 | 72 | 03 | 76 | 62 | 11 | 39 | 90 | 94 | 40 | 05 | 64 | 18 |
| 09 | 88 | 32 | 05 | 05 | 14 | 22 | 56 | 85 | 14 | 46 | 42 | 75 | 67 | 88 | 96 | 29 | 77 | 88 | 22 | 54 | 38 | 21 | 45 | 98 |
| 91 | 49 | 91 | 45 | 23 | 68 | 47 | 92 | 76 | 86 | 46 | 16 | 28 | 35 | 54 | 94 | 75 | 08 | 99 | 23 | 37 | 08 | 92 | 00 | 41 |
| 80 | 33 | 69 | 45 | 98 | 26 | 94 | 03 | 68 | 58 | 70 | 29 | 73 | 41 | 35 | 53 | 14 | 03 | 33 | 40 | 42 | 05 | 08 | 23 | 41 |
| 44 | 10 | 48 | 19 | 49 | 85 | 15 | 74 | 79 | 54 | 32 | 97 | 92 | 65 | 75 | 57 | 60 | 04 | 08 | 81 | 22 | 22 | 20 | 64 | 12 |
| 12 | 55 | 07 | 37 | 42 | 11 | 10 | 00 | 20 | 40 | 12 | 86 | 07 | 46 | 97 | 96 | 64 | 48 | 94 | 39 | 28 | 70 | 72 | 58 | 11 |
| 63 | 60 | 64 | 93 | 29 | 16 | 50 | 53 | 44 | 84 | 40 | 21 | 95 | 25 | 63 | 43 | 65 | 17 | 70 | 82 | 07 | 20 | 73 | 17 | 90 |
| 61 | 19 | 69 | 04 | 46 | 26 | 45 | 74 | 77 | 74 | 51 | 92 | 43 | 37 | 29 | 65 | 39 | 45 | 95 | 93 | 42 | 58 | 26 | 06 | 21 |
| 15 | 47 | 44 | 52 | 66 | 95 | 27 | 07 | 99 | 53 | 59 | 36 | 78 | 38 | 48 | 82 | 39 | 61 | 01 | 18 | 33 | 21 | 15 | 94 | 61 |
| 94 | 55 | 72 | 85 | 73 | 67 | 89 | 75 | 43 | 87 | 54 | 62 | 24 | 44 | 31 | 91 | 19 | 04 | 25 | 92 | 92 | 92 | 74 | 59 | 71 |
| 42 | 48 | 11 | 62 | 13 | 97 | 34 | 40 | 87 | 21 | 16 | 86 | 84 | 87 | 67 | 03 | 07 | 11 | 20 | 59 | 25 | 70 | 14 | 66 | 71 |
| 23 | 52 | 37 | 83 | 17 | 73 | 20 | 88 | 98 | 37 | 68 | 93 | 59 | 14 | 16 | 26 | 25 | 22 | 96 | 63 | 05 | 52 | 28 | 25 | 61 |
| 04 | 49 | 35 | 24 | 94 | 75 | 24 | 83 | 38 | 24 | 45 | 86 | 25 | 10 | 25 | 61 | 96 | 27 | 93 | 35 | 65 | 33 | 71 | 24 | 71 |
| 00 | 54 | 99 | 76 | 54 | 64 | 05 | 18 | 81 | 59 | 96 | 11 | 96 | 38 | 96 | 54 | 69 | 28 | 23 | 91 | 23 | 28 | 72 | 95 | 21 |
| 35 | 96 | 31 | 53 | 07 | 26 | 89 | 80 | 93 | 54 | 33 | 35 | 13 | 54 | 62 | 77 | 97 | 45 | 00 | 24 | 90 | 10 | 33 | 03 | 33 |
| 59 | 80 | 80 | 83 | 91 | 45 | 42 | 72 | 68 | 42 | 83 | 60 | 94 | 97 | 00 | 13 | 02 | 12 | 48 | 92 | 78 | 56 | 52 | 01 | 00 |
| 46 | 05 | 88 | 52 | 36 | 01 | 39 | 09 | 22 | 86 | 77 | 28 | 14 | 40 | 77 | 93 | 91 | 08 | 36 | 47 | 70 | 61 | 74 | 29 | 41 |
| 32 | 17 | 90 | 05 | 97 | 87 | 37 | 92 | 52 | 41 | 05 | 56 | 70 | 70 | 07 | 86 | 74 | 31 | 71 | 57 | 85 | 39 | 41 | 18 | 31 |
| 69 | 23 | 46 | 14 | 06 | 20 | 11 | 74 | 52 | 04 | 15 | 95 | 66 | 00 | 00 | 18 | 74 | 39 | 24 | 23 | 97 | 11 | 89 | 63 | 31 |
| 19 | 56 | 54 | 14 | 30 | 01 | 75 | 87 | 53 | 79 | 40 | 41 | 92 | 15 | 85 | 66 | 67 | 43 | 68 | 06 | 84 | 96 | 28 | 52 | 01 |
| 45 | 15 | 51 | 49 | 38 | 19 | 47 | 60 | 72 | 46 | 43 | 66 | 79 | 45 | 43 | 59 | 04 | 79 | 09 | 33 | 20 | 82 | 66 | 93 | 41 |
| 94 | 86 | 43 | 19 | 94 | 36 | 16 | 81 | 08 | 51 | 34 | 88 | 88 | 15 | 53 | 01 | 54 | 03 | 54 | 56 | 05 | 01 | 45 | 11 | 71 |
| 98 | 08 | 62 | 48 | 26 | 45 | 24 | 02 | 84 | 04 | 44 | 99 | 90 | 88 | 96 | 39 | 09 | 47 | 34 | 07 | 35 | 44 | 13 | 18 | 81 |
| 33 | 18 | 51 | 62 | 32 | 41 | 94 | 15 | 09 | 49 | 89 | 43 | 54 | 85 | 81 | 88 | 69 | 54 | 19 | 94 | 37 | 54 | 87 | 30 | 41 |
| 80 | 95 | 10 | 04 | 06 | 96 | 38 | 27 | 07 | 74 | 20 | 15 | 12 | 33 | 87 | 25 | 01 | 62 | 52 | 98 | 94 | 62 | 46 | 11 | 71 |
| 79 | 75 | 24 | 91 | 40 | 71 | 96 | 12 | 82 | 96 | 69 | 86 | 10 | 25 | 31 | 74 | 85 | 22 | 05 | 39 | 00 | 38 | 75 | 95 | 71 |
| 18 | 63 | 33 | 25 | 37 | 98 | 14 | 50 | 65 | 71 | 31 | 01 | 02 | 46 | 74 | 05 | 45 | 56 | 14 | 27 | 77 | 93 | 89 | 19 | 31 |
| 74 | 02 | 94 | 39 | 02 | 77 | 55 | 73 | 22 | 70 | 97 | 79 | 01 | 71 | 19 | 52 | 52 | 75 | 80 | 21 | 80 | 81 | 45 | 17 | 41 |
| 54 | 17 | 84 | 56 | 11 | 80 | 99 | 33 | 71 | 43 | 05 | 33 | 51 | 29 | 89 | 56 | 12 | 71 | 92 | 55 | 36 | 04 | 09 | 03 | 11 |
| 11 | 66 | 44 | 98 | 83 | 52 | 07 | 98 | 48 | 27 | 59 | 38 | 17 | 15 | 39 | 09 | 97 | 33 | 34 | 40 | 88 | 46 | 12 | 33 | 11 |
| 48 | 32 | 47 | 79 | 28 | 31 | 24 | 96 | 47 | 10 | 02 | 29 | 53 | 68 | 70 | 32 | 30 | 75 | 75 | 46 | 15 | 02 | 00 | 99 | 11 |
| 69 | 07 | 49 | 41 | 38 | 87 | 63 | 79 | 19 | 76 | 35 | 58 | 40 | 44 | 01 | 10 | 51 | 82 | 16 | 15 | 01 | 84 | 87 | 69 | 11 |

Tomada de las tablas de la RAND Corporation. Se reimprimen de la obra de Wilfred J. Dixon y Frank Massey, Jr., *Introduction to Statistical Analysis*, 3ª ed. McGraw-Hill Book Company, Nueva York, 1969, pág. 446.

$$\Phi(z) = P(Z \leq z) = \int_{-\infty}^z \frac{1}{\sqrt{2\pi}} e^{-\frac{u^2}{2}} du$$



| z | .05 | .06 | .07 | .08 | .09 | z |
|-----|---------|---------|---------|---------|---------|-----|
| .0 | .519 94 | .523 92 | .527.90 | .531 88 | .535 86 | .0 |
| .1 | .559 62 | .563 56 | .567 49 | .571 42 | .575 34 | .1 |
| .2 | .598 71 | .602 57 | .606 42 | .610 26 | .614 09 | .2 |
| .3 | .636 83 | .640 58 | .644 31 | .648 03 | .651 73 | .3 |
| .4 | .673 64 | .677 24 | .680 82 | .684 38 | .687 93 | .4 |
| .5 | .708 84 | .712 26 | .715 66 | .719 04 | .722 40 | .5 |
| .6 | .742 15 | .745 37 | .748 57 | .751 75 | .754 90 | .6 |
| .7 | .773 37 | .776 37 | .779 35 | .782 30 | .785 23 | .7 |
| .8 | .802 34 | .805 10 | .807 85 | .810 57 | .813 27 | .8 |
| .9 | .828 94 | .831 47 | .833 97 | .836 46 | .838 91 | .9 |
| 1.0 | .853 14 | .855 43 | .857 69 | .859 93 | .862 14 | 1.0 |
| 1.1 | .874 93 | .876 97 | .879 00 | .881 00 | .882 97 | 1.1 |
| 1.2 | .894 35 | .896 16 | .897 96 | .899 73 | .901 47 | 1.2 |
| 1.3 | .911 49 | .913 08 | .914 65 | .916 21 | .917 73 | 1.3 |
| 1.4 | .926 47 | .927 85 | .929 22 | .930 56 | .931 89 | 1.4 |
| 1.5 | .939 43 | .940 62 | .941 79 | .942 95 | .944 08 | 1.5 |
| 1.6 | .950 53 | .951 54 | .952 54 | .953 52 | .954 48 | 1.6 |
| 1.7 | .959 94 | .960 80 | .961 64 | .962 46 | .963 27 | 1.7 |
| 1.8 | .967 84 | .968 56 | .969 26 | .969 95 | .970 62 | 1.8 |
| 1.9 | .974 41 | .975 00 | .975 58 | .976 15 | .976 70 | 1.9 |
| 2.0 | .979 82 | .980 30 | .980 77 | .981 24 | .981 69 | 2.0 |
| 2.1 | .984 22 | .984 61 | .985 00 | .985 37 | .985 74 | 2.1 |
| 2.2 | .987 78 | .988 09 | .988 40 | .988 70 | .988 99 | 2.2 |
| 2.3 | .990 61 | .990 86 | .991 11 | .991 34 | .991 58 | 2.3 |
| 2.4 | .992 86 | .993 05 | .993 24 | .993 43 | .993 61 | 2.4 |
| 2.5 | .994 61 | .994 77 | .994 92 | .995 06 | .995 20 | 2.5 |
| 2.6 | .995 98 | .996 09 | .996 21 | .996 32 | .996 43 | 2.6 |
| 2.7 | .997 02 | .997 11 | .997 20 | .997 28 | .997 36 | 2.7 |
| 2.8 | .997 81 | .997 88 | .997 95 | .998 01 | .998 07 | 2.8 |
| 2.9 | .998 41 | .998 46 | .998 51 | .998 56 | .998 61 | 2.9 |
| 3.0 | .998 86 | .998 89 | .998 93 | .998 97 | .999 00 | 3.0 |
| 3.1 | .999 18 | .999 21 | .999 24 | .999 26 | .999 29 | 3.1 |
| 3.2 | .999 42 | .999 44 | .999 46 | .999 48 | .999 50 | 3.2 |
| 3.3 | .999 60 | .999 61 | .999 62 | .999 64 | .999 65 | 3.3 |
| 3.4 | .999 72 | .999 73 | .999 74 | .999 75 | .999 76 | 3.4 |
| 3.5 | .999 81 | .999 81 | .999 82 | .999 83 | .999 83 | 3.5 |
| 3.6 | .999 87 | .999 87 | .999 88 | .999 88 | .999 89 | 3.6 |
| 3.7 | .999 91 | .999 92 | .999 92 | .999 92 | .999 92 | 3.7 |
| 3.8 | .999 94 | .999 94 | .999 95 | .999 95 | .999 95 | 3.8 |
| 3.9 | .999 96 | .999 96 | .999 96 | .999 97 | .999 97 | 3.9 |

Probabilidad y estadística aplicadas a la ingeniería, Montgomery 1996