第9讲 MATLAB在数理统计中的应用的数据

表9.1 100名学生身高和体重数据

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 身高 | 体重 | 身高 | 体重 | 身高 | 体重 | 身高 | 体重 | 身高 | 体重 |
| 172 | 75 | 169 | 55 | 169 | 64 | 171 | 65 | 167 | 47 |
| 171 | 62 | 168 | 67 | 165 | 52 | 169 | 62 | 168 | 65 |
| 166 | 62 | 168 | 65 | 164 | 59 | 170 | 58 | 165 | 64 |
| 160 | 55 | 175 | 67 | 173 | 74 | 172 | 64 | 168 | 57 |
| 155 | 57 | 176 | 64 | 172 | 69 | 169 | 58 | 176 | 57 |
| 173 | 58 | 168 | 50 | 169 | 52 | 167 | 72 | 170 | 57 |
| 166 | 55 | 161 | 49 | 173 | 57 | 175 | 76 | 158 | 51 |
| 170 | 63 | 169 | 63 | 173 | 61 | 164 | 59 | 165 | 62 |
| 167 | 53 | 171 | 61 | 166 | 70 | 166 | 63 | 172 | 53 |
| 173 | 60 | 178 | 64 | 163 | 57 | 169 | 54 | 169 | 66 |
| 178 | 60 | 177 | 66 | 170 | 56 | 167 | 54 | 169 | 58 |
| 173 | 73 | 170 | 58 | 160 | 65 | 179 | 62 | 172 | 50 |
| 163 | 47 | 173 | 67 | 165 | 58 | 176 | 63 | 162 | 52 |
| 165 | 66 | 172 | 59 | 177 | 66 | 182 | 69 | 175 | 75 |
| 170 | 60 | 170 | 62 | 169 | 63 | 186 | 77 | 174 | 66 |
| 163 | 50 | 172 | 59 | 176 | 60 | 166 | 76 | 167 | 63 |
| 172 | 57 | 177 | 58 | 177 | 67 | 169 | 72 | 166 | 50 |
| 182 | 63 | 176 | 68 | 172 | 56 | 173 | 59 | 174 | 64 |
| 171 | 59 | 175 | 68 | 165 | 56 | 169 | 65 | 168 | 62 |
| 177 | 64 | 184 | 70 | 166 | 49 | 171 | 71 | 170 | 59 |

表9.6 印刷错误数据表

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 错误个数 | 0 | 1 | 2 | 3 | 4 | 5 | 6 | ≥7 |
| 含个错误的页数 | 36 | 40 | 19 | 2 | 0 | 2 | 1 | 0 |

表9.13 保险理赔额观测数据

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  |  |  |  |  |  |
|  | 98 | 93 | 103 | 92 | 110 |
|  | 100 | 108 | 118 | 99 | 111 |
|  | 129 | 140 | 108 | 105 | 116 |

表9.14

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1000 | 600 | 1200 | 500 | 300 | 400 | 1300 | 1100 | 1300 | 300 |
|  | 5 | 7 | 6 | 6 | 8 | 7 | 5 | 4 | 3 | 9 |
|  | 100 | 75 | 80 | 70 | 50 | 65 | 90 | 100 | 110 | 60 |

表9.15 **100次刀具故障记录(完成的零件数)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 459 | 362 | 624 | 542 | 509 | 584 | 433 | 748 | 815 | 505 |
| 612 | 452 | 434 | 982 | 640 | 742 | 565 | 706 | 593 | 680 |
| 926 | 653 | 164 | 487 | 734 | 608 | 428 | 1153 | 593 | 844 |
| 527 | 552 | 513 | 781 | 474 | 388 | 824 | 538 | 862 | 659 |
| 775 | 859 | 755 | 649 | 697 | 515 | 628 | 954 | 771 | 609 |
| 402 | 960 | 885 | 610 | 292 | 837 | 473 | 677 | 358 | 638 |
| 699 | 634 | 555 | 570 | 84 | 416 | 606 | 1062 | 484 | 120 |
| 447 | 654 | 564 | 339 | 280 | 246 | 687 | 539 | 790 | 581 |
| 621 | 724 | 531 | 512 | 577 | 496 | 468 | 499 | 544 | 645 |
| 764 | 558 | 378 | 765 | 666 | 763 | 217 | 715 | 310 | 851 |

表9.16 晶体生长的观察数据

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 50 | 60 | 60 | 70 | 70 | 80 | 80 | 90 | 90 | 90 | 95 | 100 | 100 | 100 | 105 |
|  | 19 | 20 | 21 | 17 | 22 | 25 | 28 | 21 | 25 | 31 | 25 | 30 | 29 | 33 | 35 |
|  | 105 | 110 | 110 | 110 | 115 | 115 | 115 | 120 | 120 | 120 | 125 | 130 | 130 | 135 | 135 |
|  | 32 | 30 | 28 | 30 | 31 | 36 | 30 | 36 | 25 | 28 | 28 | 31 | 32 | 34 | 25 |
|  | 140 | 140 | 145 | 150 | 150 | 155 | 155 | 160 | 160 | 160 | 165 | 170 | 180 |  |  |
|  | 26 | 33 | 31 | 36 | 33 | 41 | 33 | 40 | 30 | 37 | 32 | 35 | 38 |  |  |

表9.17 扑尔敏有效含量数据

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Lab1 | Lab2 | Lab3 | Lab4 | Lab5 | Lab6 | Lab7 |
| 4.13 | 3.86 | 4.00 | 3.88 | 4.02 | 4.02 | 4.00 |
| 4.07 | 3.85 | 4.02 | 3.88 | 3.95 | 3.86 | 4.02 |
| 4.04 | 4.08 | 4.01 | 3.91 | 4.02 | 3.96 | 4.03 |
| 4.07 | 4.11 | 4.01 | 3.95 | 3.89 | 3.97 | 4.04 |
| 4.05 | 4.08 | 4.04 | 3.92 | 3.91 | 4.00 | 4.10 |
| 4.04 | 4.01 | 3.99 | 3.97 | 4.01 | 3.82 | 3.81 |
| 4.02 | 4.02 | 4.03 | 3.92 | 3.89 | 3.98 | 3.91 |
| 4.06 | 4.04 | 3.97 | 3.90 | 3.89 | 3.99 | 3.96 |
| 4.10 | 3.97 | 3.98 | 3.97 | 3.99 | 4.02 | 4.05 |
| 4.04 | 3.95 | 3.98 | 3.90 | 4.00 | 3.93 | 4.06 |