1. Determine state of steam i.e. whether it is wet, dry or superheated and find unknown values.

|  |  |  |  |
| --- | --- | --- | --- |
| P (kPa) | T (C) | X (%) | v (m3/kg) |
| 300 | 200 | ? | ? |
| ? | 200 | ? | 0.105 |

1. Fill in the blanks in the following table with the corresponding properties of water or by the symbol x, when it is not relevant or meaningless or by the symbol --, when it is indeterminate

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| State | P, kPa | T, C | X, % | v, m3/kg | h, kJ/kg | DoS |
| 1 | 200 | 200 |  |  |  |  |
| 2 | 250 |  | 80 |  |  |  |
| 3 | 300 |  |  | 0.5 |  |  |
| 4 |  | 150 | 60 |  |  |  |
| 5 |  | 200 |  | 0.1 |  |  |
| 6 |  | 250 |  | 0.5951 |  |  |
| 7 | 1000 |  |  |  | 2000 |  |
| 8 |  | 350 |  |  | 2563.5 |  |
| 9 | 600 |  |  | 0.001101 |  |  |
| 10 | 2000 |  |  | 0.1757 |  |  |
| 11 | 5000 |  |  | 0.001206 |  |  |
| 12 |  | 500 |  |  | 3445.4 |  |
| 13 | 8000 | 295.04 |  |  |  |  |

1. Fill in the blanks in the following table with the corresponding properties of water or by the symbol x, when it is not relevant or meaningless or by the symbol -, when it is indeterminate.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| State | P, kPa | T, C | X, % | v, m3/kg |
| 1 | 300 | 200 |  |  |
| 2 | 300 |  | 65 |  |
| 3 |  | 200 |  | 0.105 |
| 4 | 10000 |  |  | 0.04863 |
| 5 | 20000 | 120 |  |  |
| 6 | 101.325 | 100 |  |  |