RUMUS TURUNAN JEMBATAN WHEATSTONE

|  |  |  |
| --- | --- | --- |
| Rx | = | p1 . R1 |
| p2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ∆Rx | = | dRx |  | ∆p1 | + | dRx |  | ∆R1 | + | dRx | |  | ∆p2 |
| dp1 |  | R1 |  | dp2 | |  |
|  | | | | | | | | | | |

|  |  |  |
| --- | --- | --- |
| dRx | = | R1 |
| dp1 | (p2)2 |

|  |  |  |
| --- | --- | --- |
| dRx | = | p1 |
| R1 | (p2)2 |

|  |  |  |
| --- | --- | --- |
| dRx | = | -    p1 . R1 |
| dp2 | (p2)2 |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | --- | | ∆R1 | = | dR1 |  | ∆V | + | dR1 |  | ∆I | | dV |  | dI |  | |

|  |  |  |
| --- | --- | --- |
| dR1 | = | 1 |
| dV | I |

|  |  |  |
| --- | --- | --- |
| dR1 | = | -V |
| dI | I2 |

Rx = ( Rx ± ∆Rx )

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| ***Kesalahan Relatif*** | = | ∆Rx | x | 100% |
| Rx |

|  |  |  |
| --- | --- | --- |
| ***Kecermatan Relatif*** | = | 100 % - kesalahan relatif |
|