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<table>
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<tr>
<th>Formelzeichen und Maßeinheiten</th>
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<tbody>
<tr>
<td>Arbeit W Ws</td>
<td>Tera T 10^12</td>
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<tr>
<td>Frequenz f Hz</td>
<td>Giga G 10^9</td>
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<tr>
<td>Induktivität L H</td>
<td>Mega M 10^6</td>
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<tr>
<td>Kapazität C F</td>
<td>Kilo k 10^3</td>
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<td>Ladung Q C</td>
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<tr>
<td>Leistung P W</td>
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<td>Periode T s</td>
<td>Arbeit</td>
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<td>Spannung U V</td>
<td>Leistung allgemein</td>
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<tr>
<td>Strom I A</td>
<td>Leistung allgemein</td>
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<td>Widerstand R Ω</td>
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<table>
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<tr>
<th>Vorsätze</th>
<th>Ohmsches Gesetz U = R · I</th>
<th>Leitwert G = 1/R</th>
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<tr>
<th>Reihen- und Parallelschaltung von Widerständen</th>
<th>Reihenschaltung</th>
<th>Parallelschaltung</th>
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<tr>
<td>Strom i = i_1 + i_2 + ... + i_n</td>
<td>i_1 = U/R_1, i_2 = U/R_2, ...</td>
<td>U = i_1 + U_2 + ... + U_n</td>
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<tr>
<td>Spannung U = U_1 + U_2 + ... + U_n</td>
<td>i = U/R = 1 + 1/R_2 + ... + 1/R_n</td>
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### Knotenpunktsregel (1. Kirchhoffscher Satz)

\[ i_1 + i_2 + i_3 + \ldots + i_n = 0 \]

### Maschenregel (2. Kirchhoffscher Satz)

\[ u_1 + u_2 + u_3 + \ldots + u_n = 0 \]

### Leiterwiderstand

\[ R = |p - l|/A \]

\[ R = l/(\kappa \cdot A) \]

### Effektivwert

\[ U = \frac{\bar{U}}{\sqrt{2}} \]

### Scheinleistung

\[ S = U \cdot I \]

### Kreisfrequenz

\[ \omega = 2 \cdot \pi \cdot f \]

### Lichtgeschwindigkeit

\[ c = \frac{\lambda}{t} \]

### Wellenlänge

\[ \lambda = f \cdot \omega \]

### Frequenz und Wellenlänge

\[ f = c/\lambda \]

### Augenblickswert

\[ u = \bar{u} \cdot \sin \omega t \]

\[ i = \bar{i} \cdot \sin \omega t \]

### Wirkleistung

\[ P = U \cdot I \cdot \cos \varphi \]

### Blindleistung

\[ Q = U \cdot I \cdot \sin \varphi \]

### Induktiver Blindwiderstand

\[ X_L = \omega \cdot L \]

### Kapazitiver Blindwiderstand

\[ X_C = \frac{1}{\omega \cdot C} \]

### Kreisfrequenz

\[ \omega = \frac{2 \cdot \pi \cdot f}{c} \]

### Frequenz und Wellenlänge

\[ f = \frac{c}{\lambda} \]

### Lichtgeschwindigkeit

\[ c = \frac{\lambda \cdot t}{\omega} \]

### Wellenlänge

\[ \lambda = \frac{2 \cdot \pi \cdot f}{c} \]

### Frequenz und Wellenlänge

\[ f = \frac{c}{\lambda} \]

### Lichtgeschwindigkeit

\[ c = \frac{\lambda \cdot t}{\omega} \]

### Wellenlänge

\[ \lambda = \frac{2 \cdot \pi \cdot f}{c} \]

### Frequenz und Wellenlänge

\[ f = \frac{c}{\lambda} \]