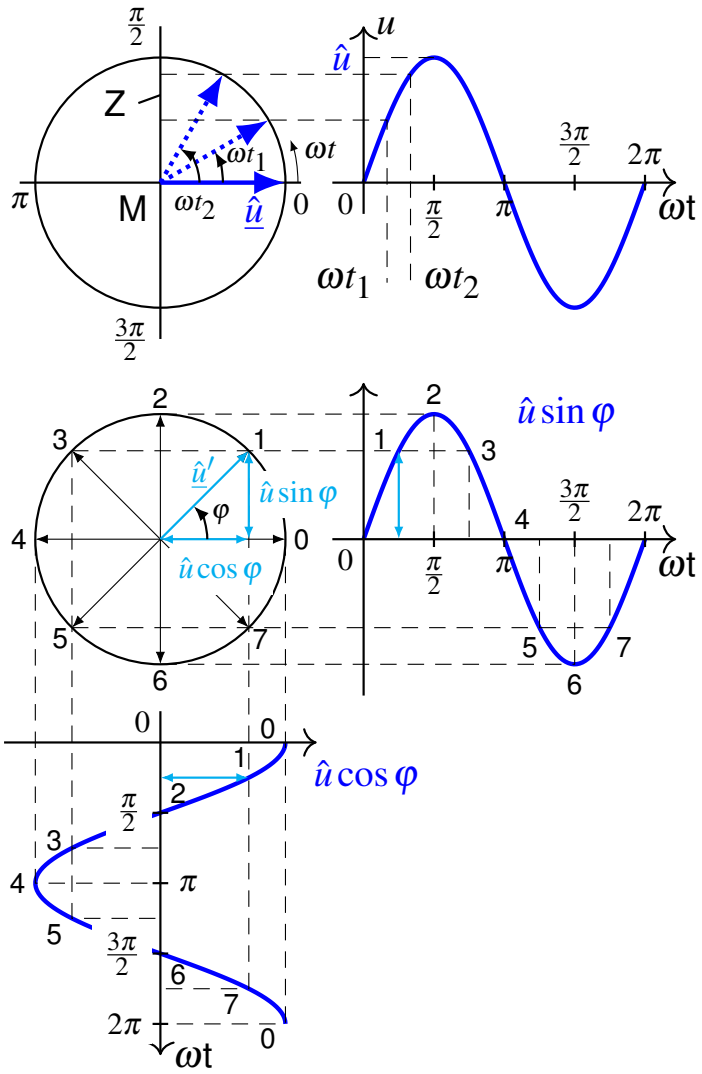
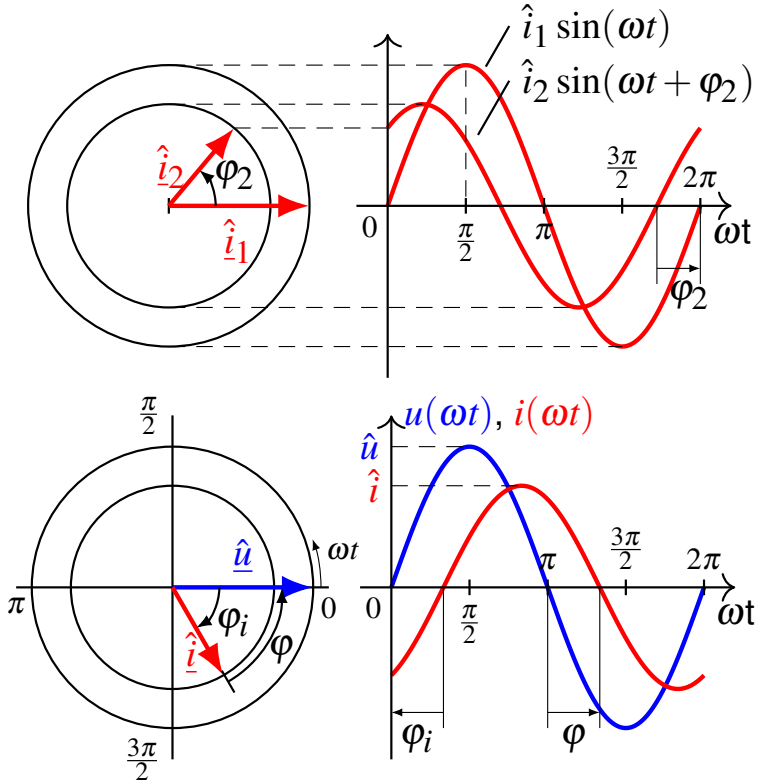
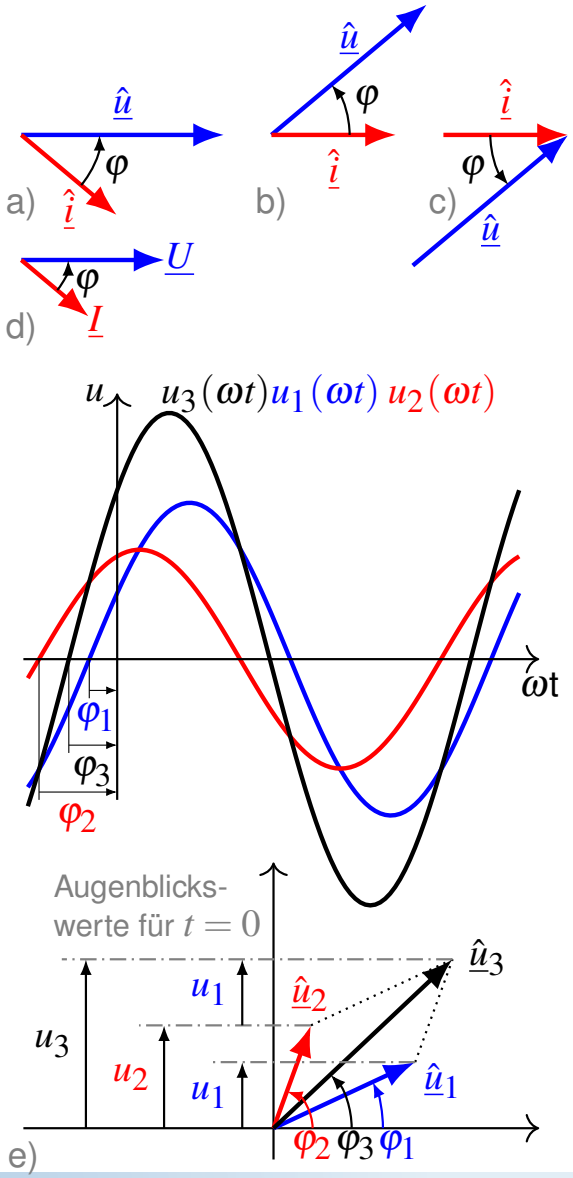
Zeigerdiagramm I



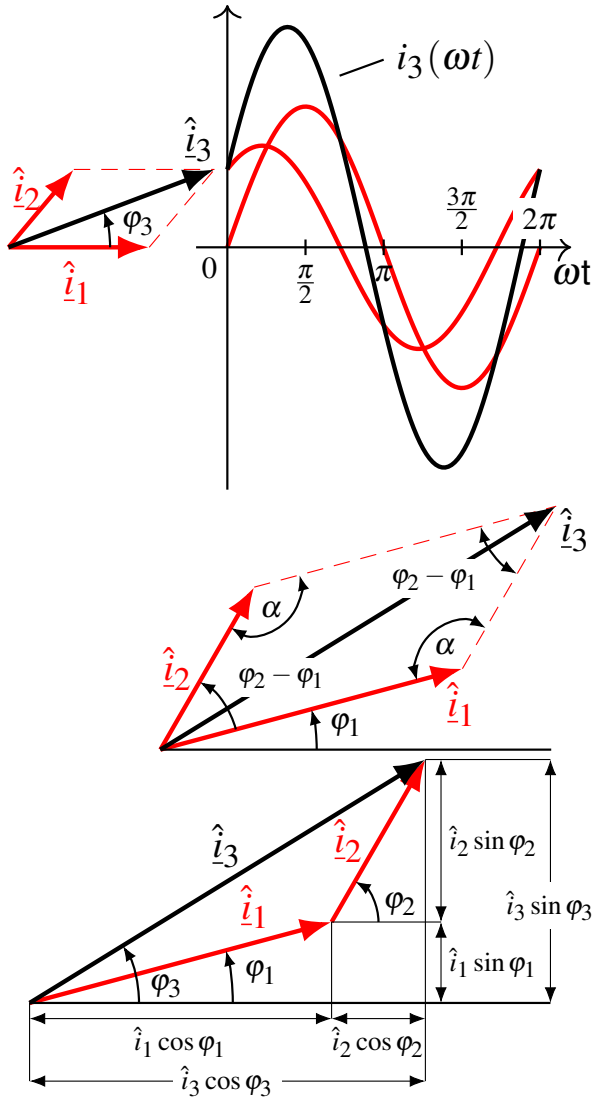
Zeigerdiagramm II



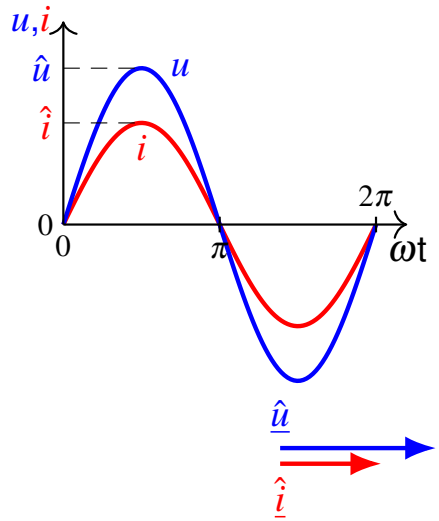
Zeigerdiagramm III



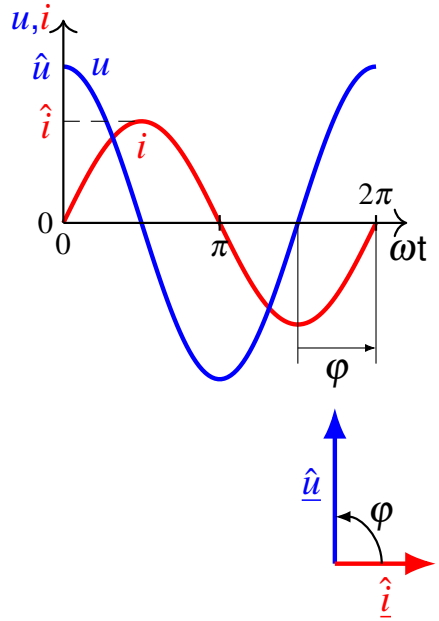
Zeigerdiagramm IV



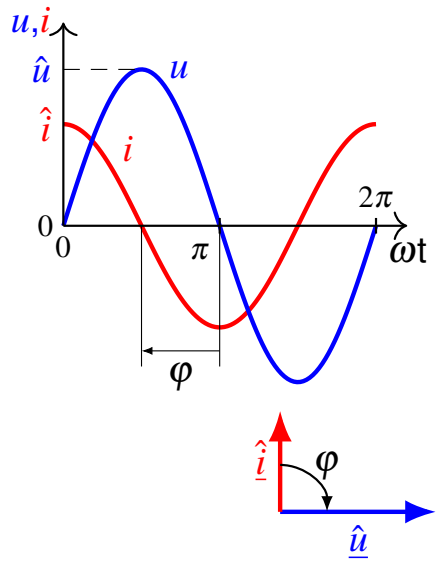
Widerstand im Wechselstromkreis



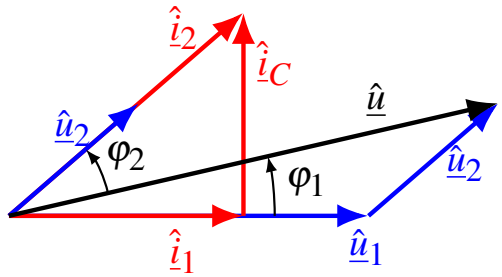
Induktivität im Wechselstromkreis



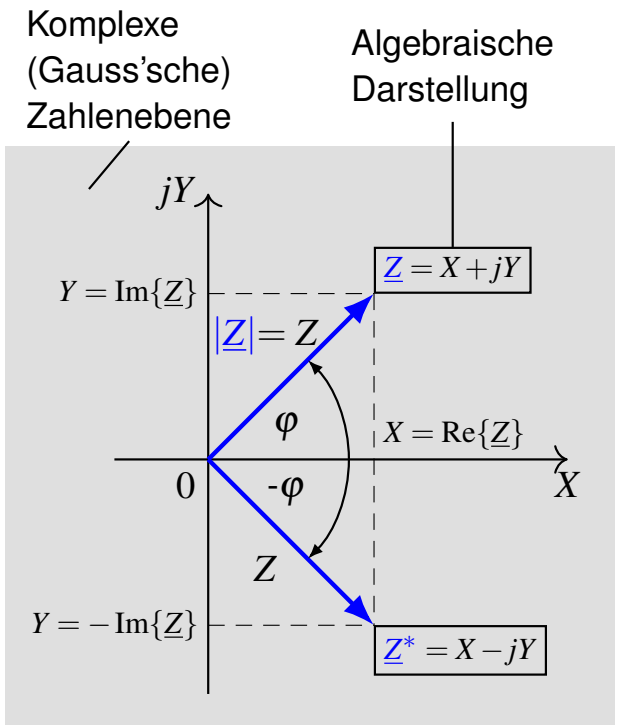
Kondensator im Wechselstromkreis



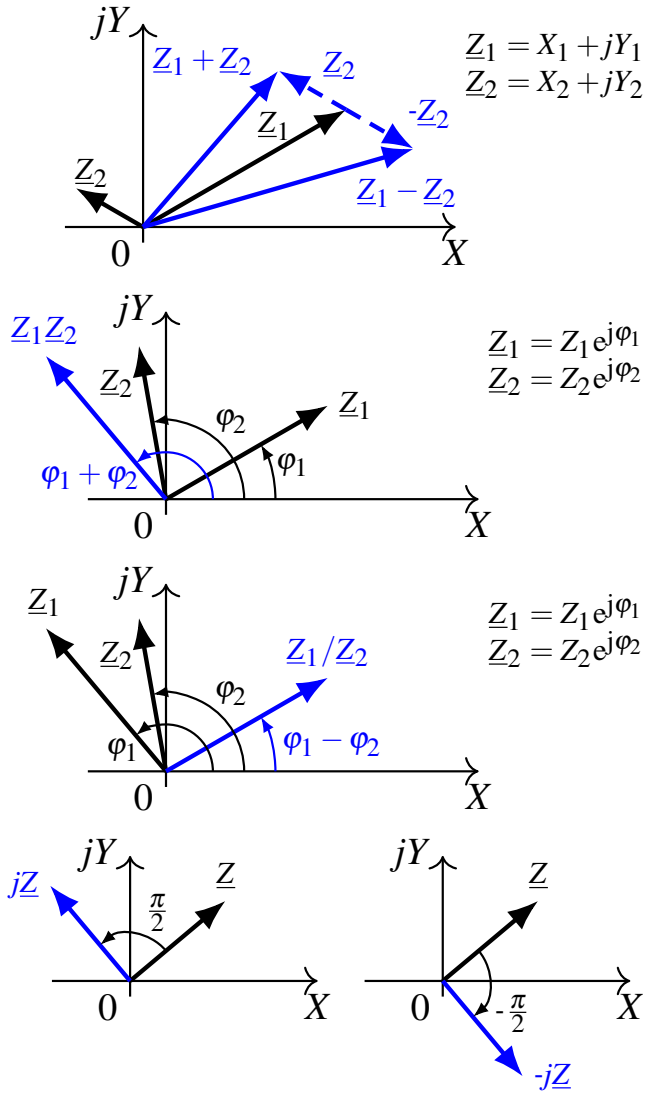
Beispiel - Konstruktion eines Zeigerdiagramms



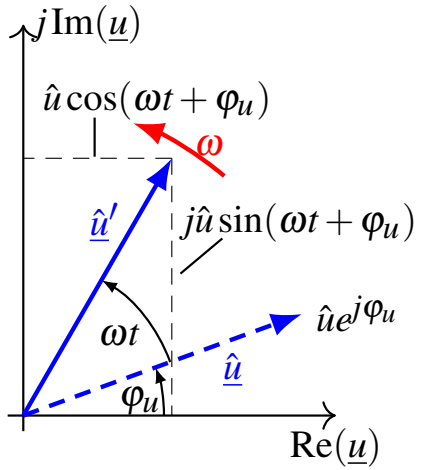
Grundbegriffe der komplexen Rechnung



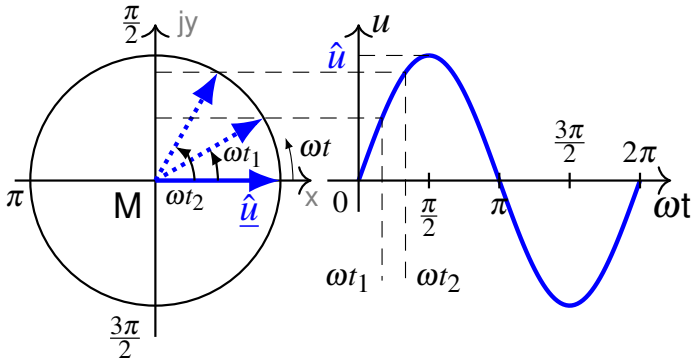
Rechenoperationen mit komplexen Zahlen

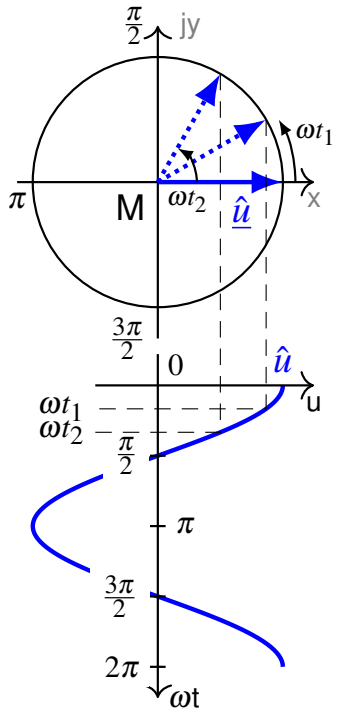


Komplexe Wechselstromrechnung

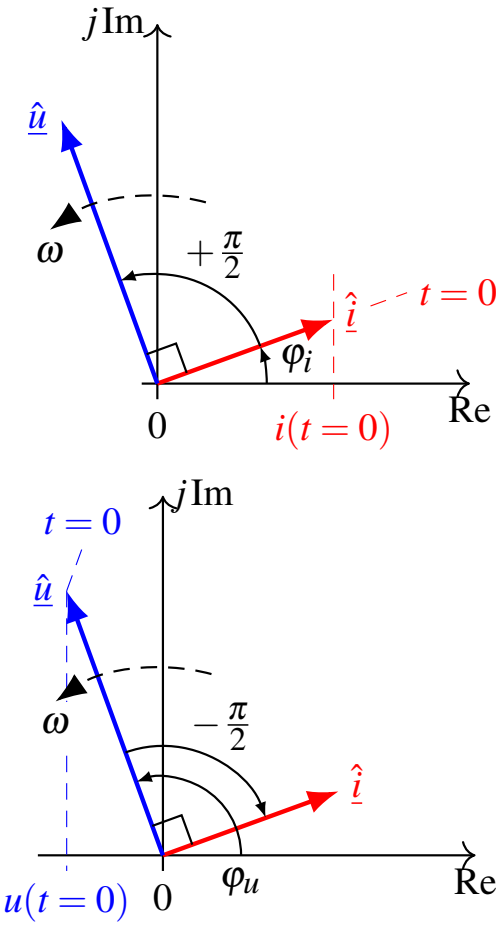


Zeiger für komplexe Wechselstromrechnung

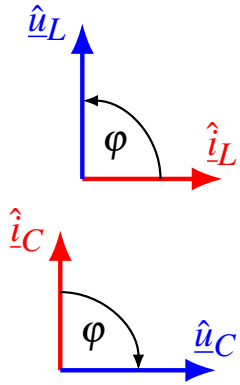




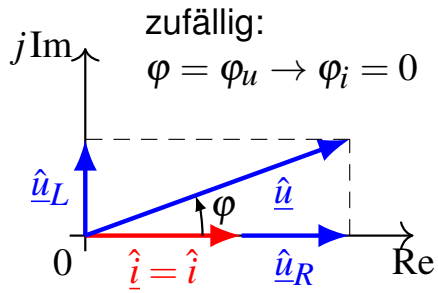
Strom-Spannungsbeziehung für Induktivität



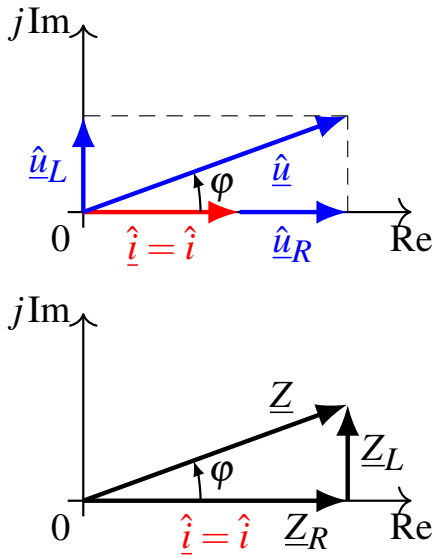
Strom-Spannungsbeziehung im Bildbereich



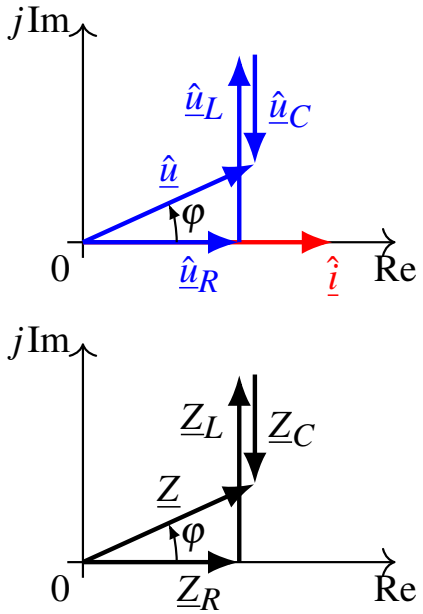
Komplexe Wechselstromrechnung - Beispiel II



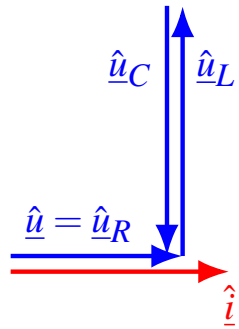
Strom-Spannungs- und Widerstands Diagramm



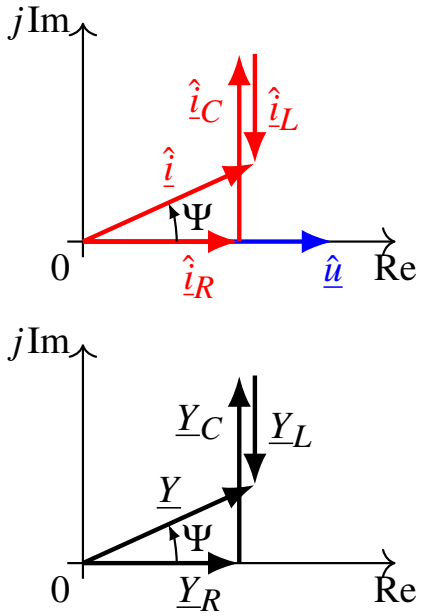
RLC-Serienschwingkreis



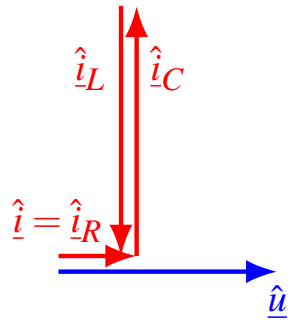
Serienschwingkreis - Bauelementespannungen I



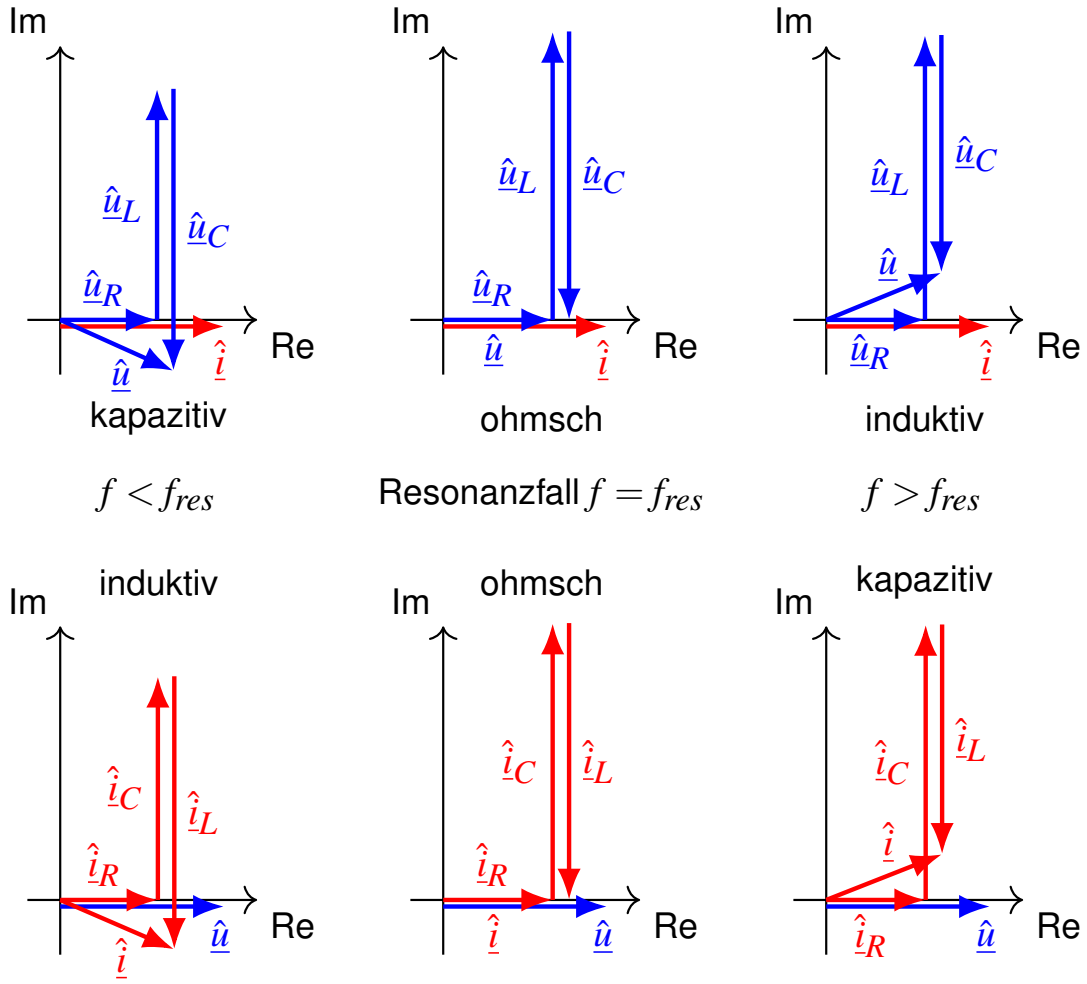
Parallelschwingkreis



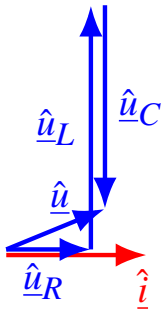
Parallelschwingkreis - Bauelementeströme I

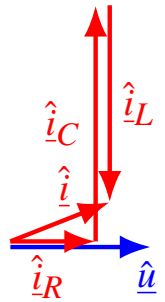


Zeigerdiagramme für Serien-/Parallelschwingkreis

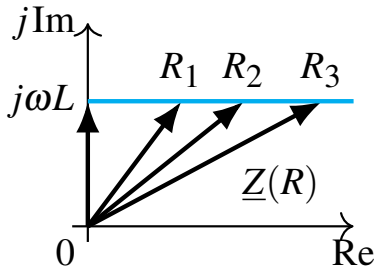


Serien vs. Parallelschwingkreis I

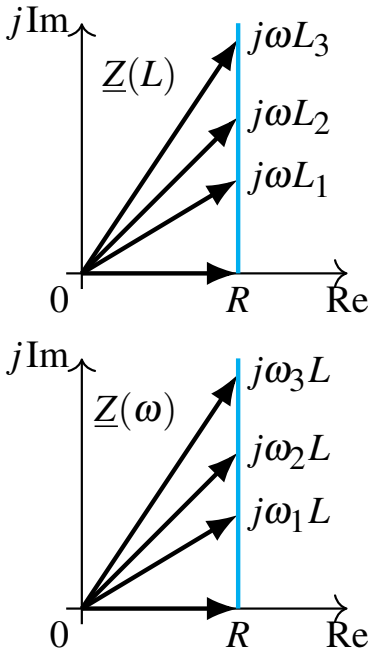




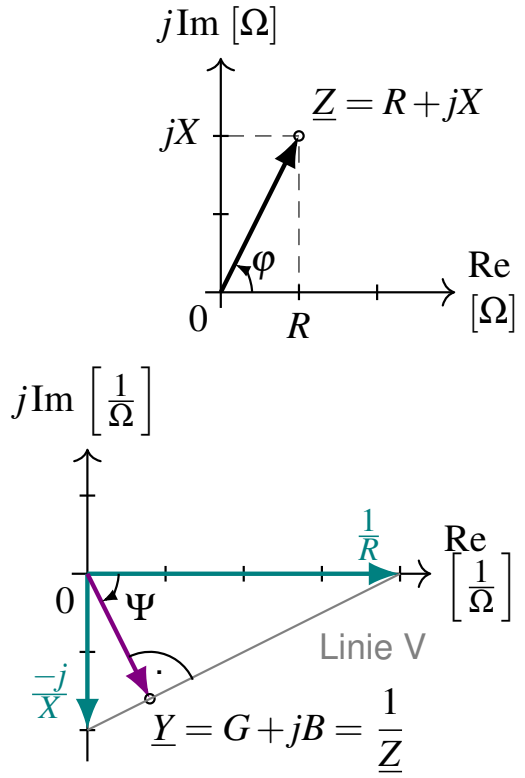
Impedanz RL-Reihenschaltung - R variabel



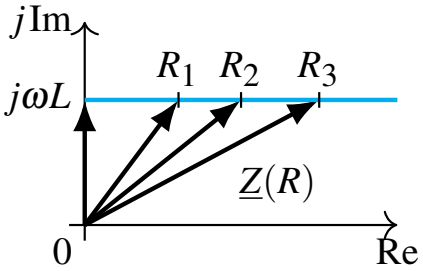
Impedanz RL-Reihenschaltung - L/ω variabel

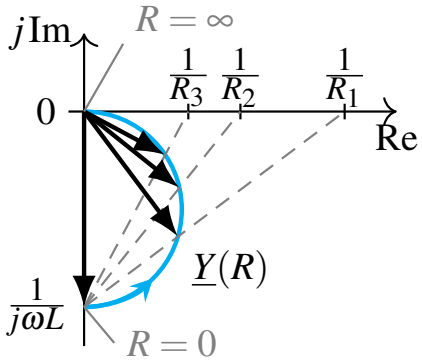


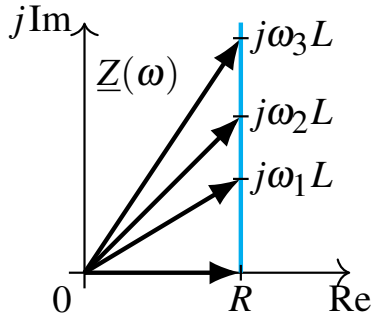
Ortskurve Admittanz: Inversion der Impedanz

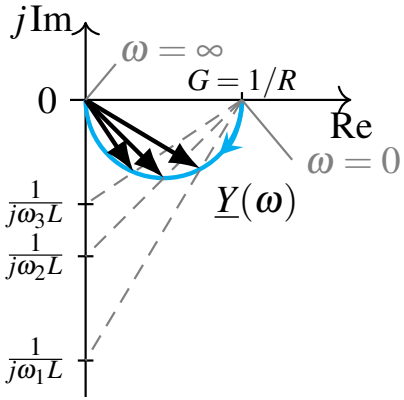


Admittanz RL-Reihenschaltung – R & ω variabel

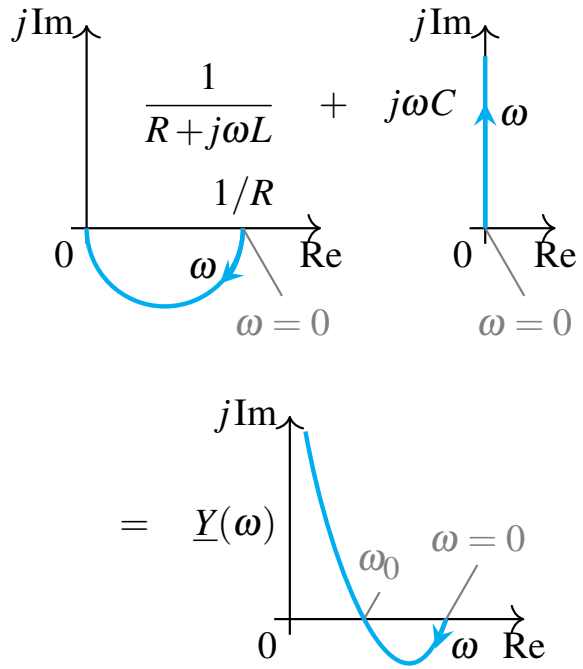




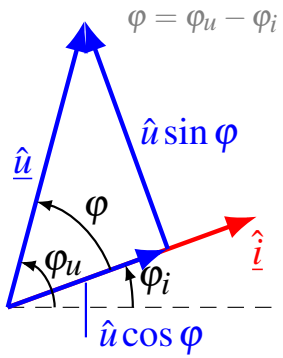




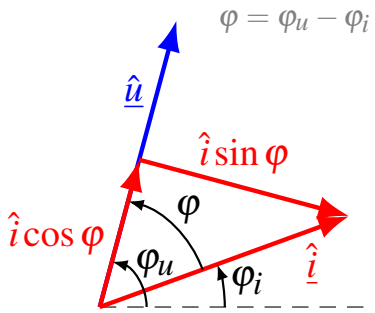
Ortskurven von komplitzierten Netzwerken I



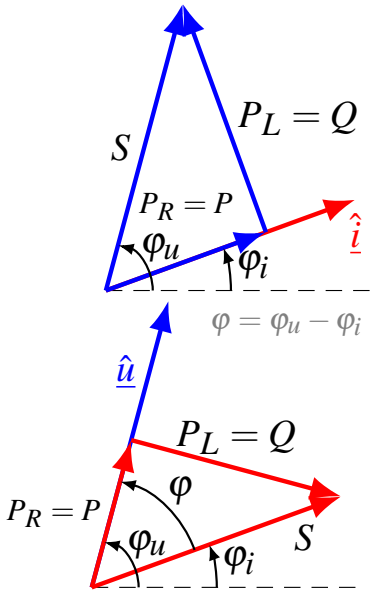
Leistung im Wechselstromkreis - RL-Schaltung I



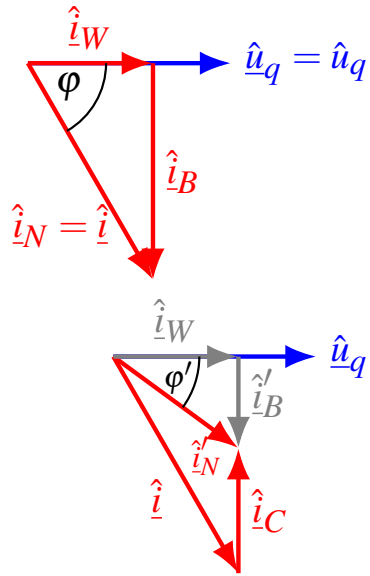
Leistung im Wechselstromkreis - RL-Schaltung II



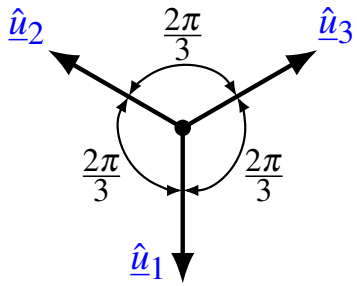
Scheinleistung



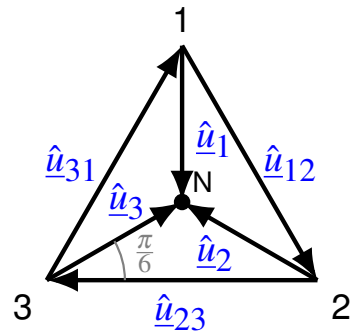
Blindstrom-/leistungskompensation I



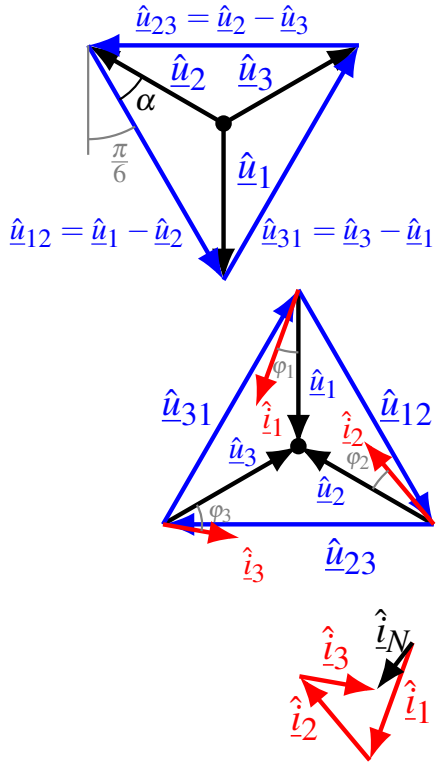
Dreiphasensystem – Sternschaltung I



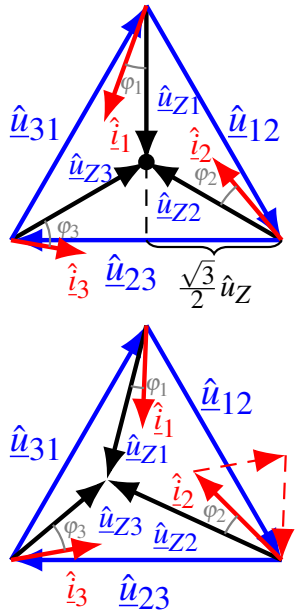
Dreiphasensystem – Sternschaltung II



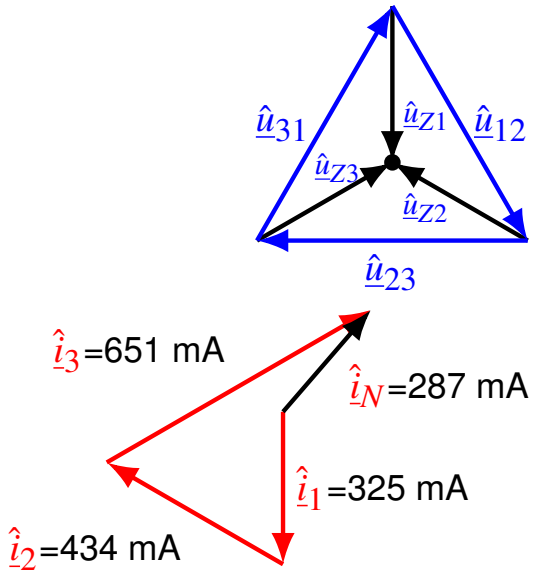
Leistungsberechnung im Drehstromsystem



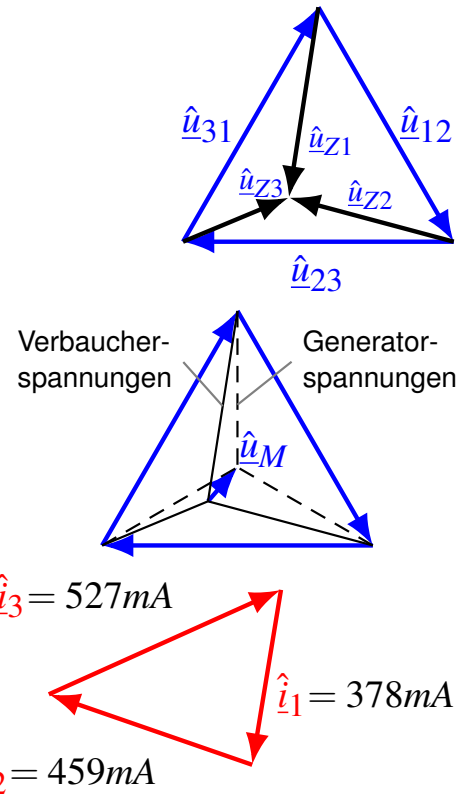
Sternschaltung mit / ohne Sternpunkt



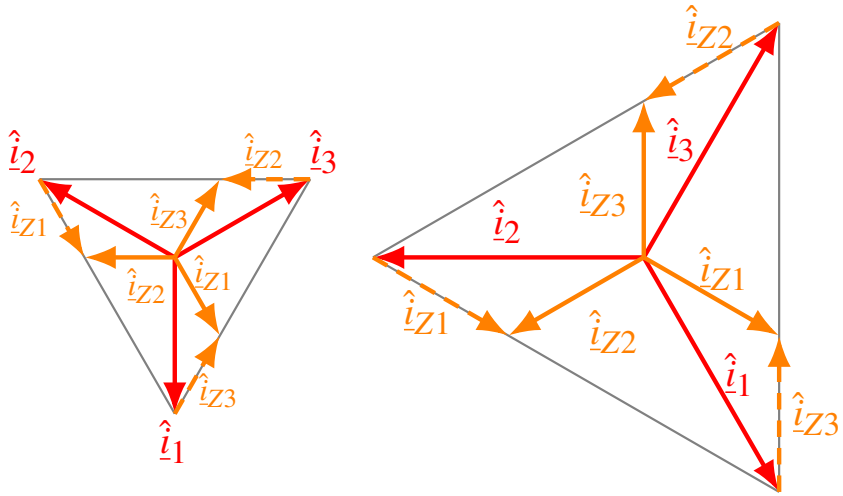
Drei-/Vierleitersystem - Beispiel I



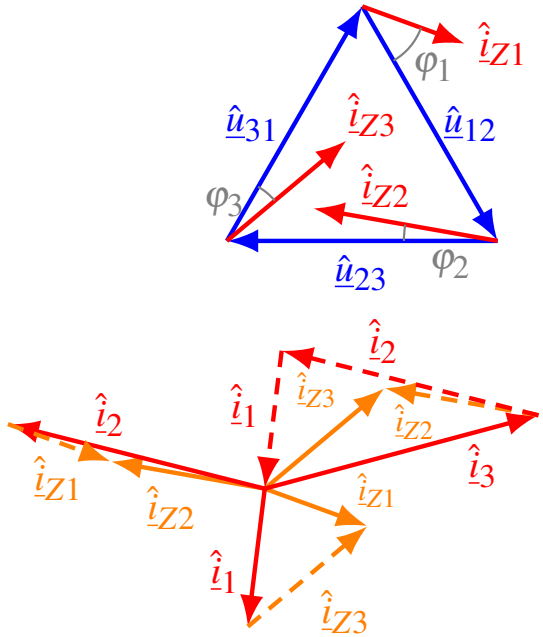
Drei-/Vierleitersystem - Beispiel II



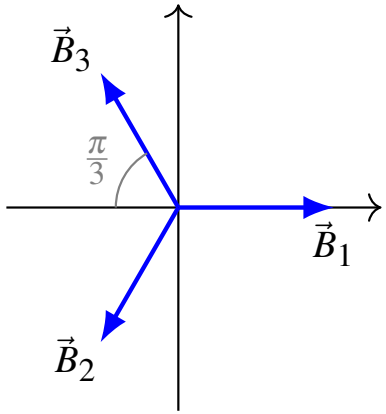
Ergänzung: Leistung bei Dreieckschaltung



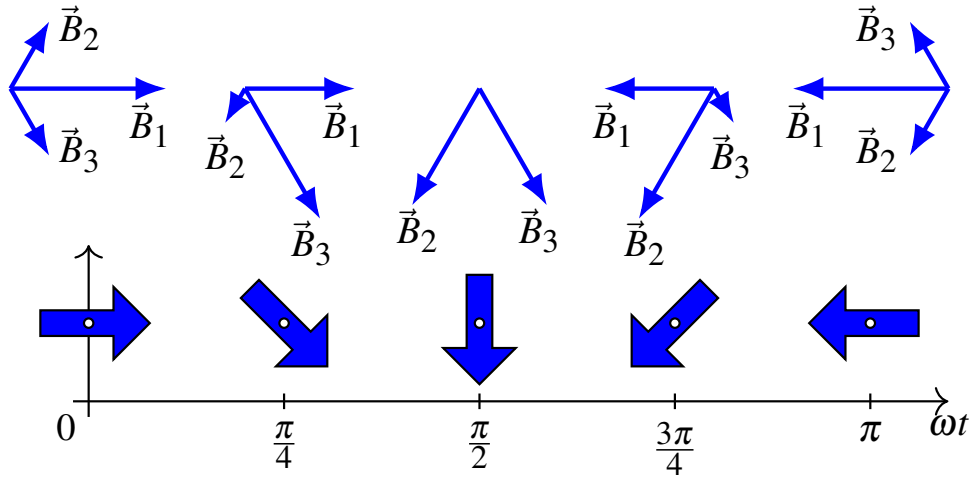
Leistungsberechnung bei Dreieckschaltung II



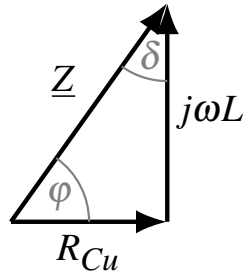
Erzeugung Drehfeld II



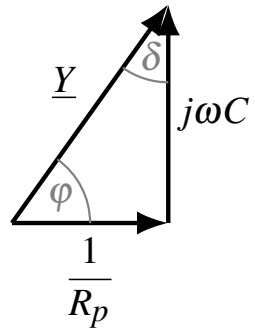
Erzeugung Drehfeld III



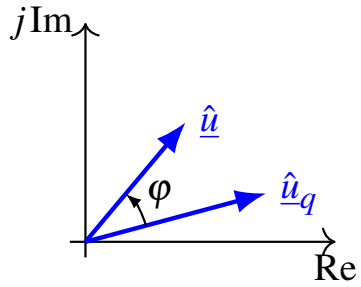
Parasitäre Effekte bei Spulen I



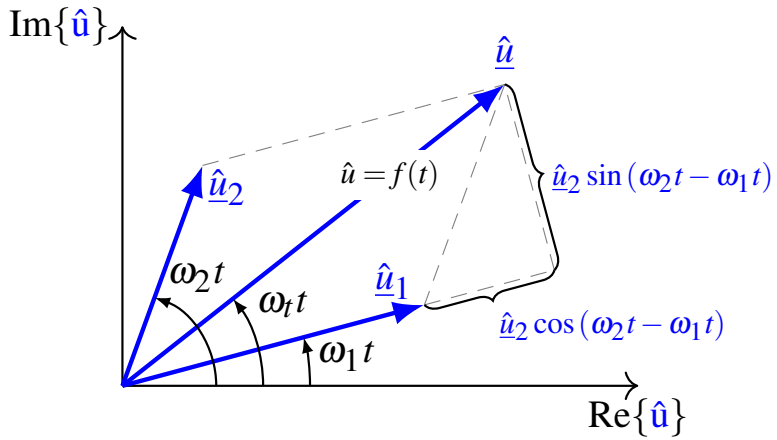
Parasitäre Effekte bei Kondensatoren I



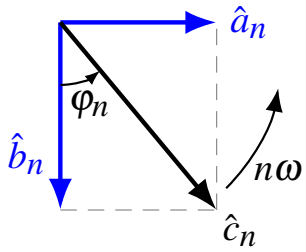
Beschaltung einer Quelle mit Last



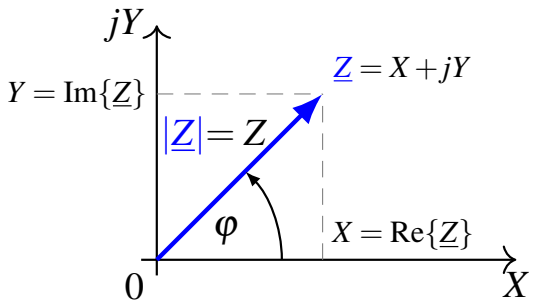
Überlagerung sinusförmiger Schwingungen



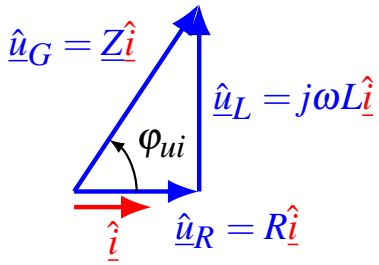
Fourierreihen - Spektralform



Ergänzung: Periodizität der Tangens-Funktion



RL-Schaltung mit gleichgerichteter Spannung II



Clicker - RLC Serienschaltung Zeiger a,b,c