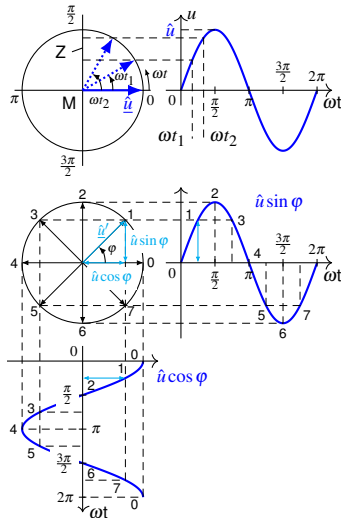
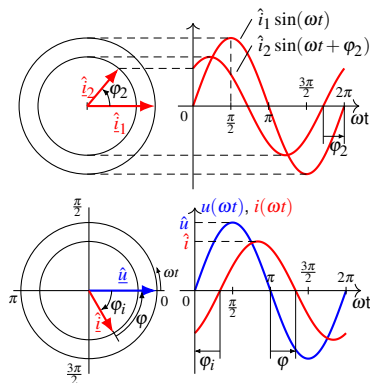


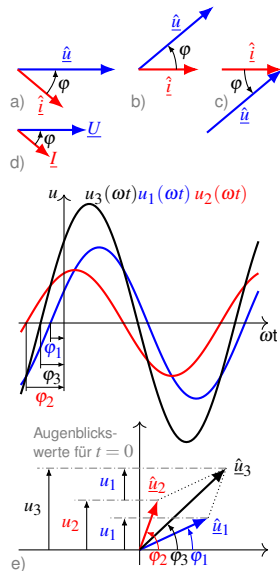
Zeigerdiagramm I



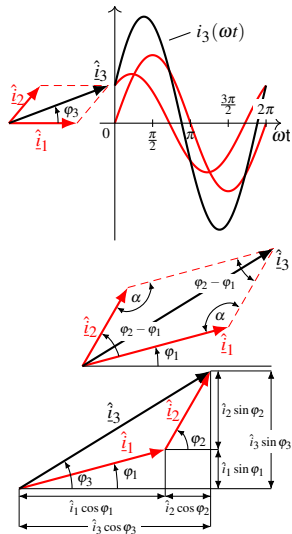
Zeigerdiagramm II



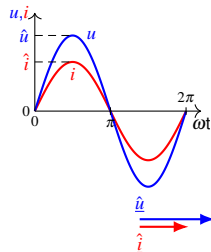
Zeigerdiagramm III



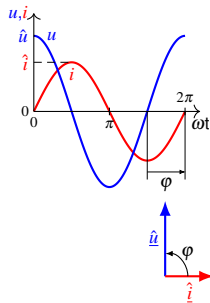
Zeigerdiagramm IV



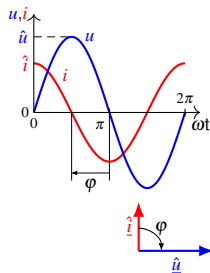
Widerstand im Wechselstromkreis



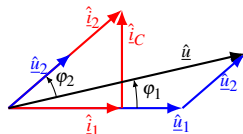
Induktivität im Wechselstromkreis



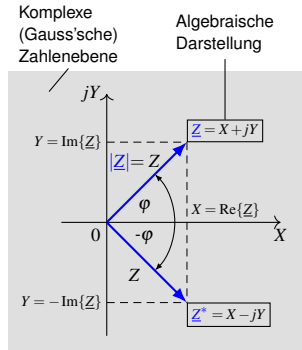
Kondensator im Wechselstromkreis



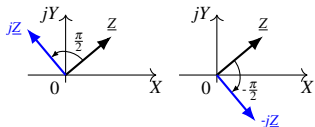
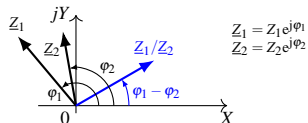
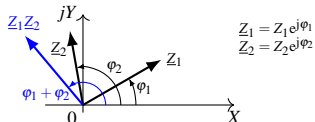
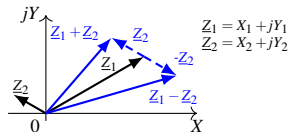
Beispiel - Konstruktion eines Zeigerdiagramms



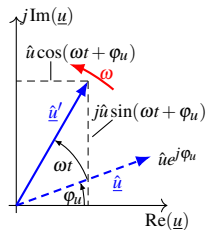
Grundbegriffe der komplexen Rechnung



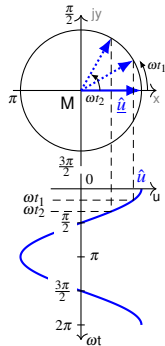
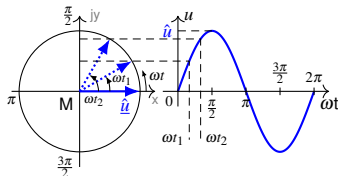
Rechenoperationen mit komplexen Zahlen



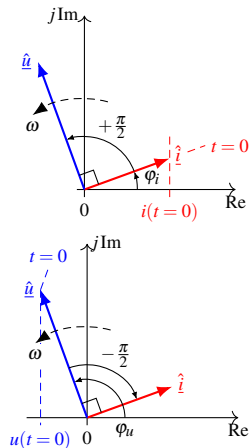
Komplexe Wechselstromrechnung



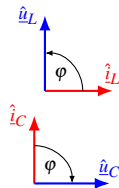
Zeiger für komplexe Wechselstromrechnung



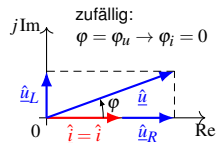
Strom-Spannungsbeziehung für Induktivität



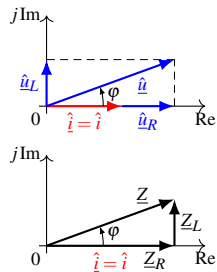
Strom-Spannungsbeziehung im Bildbereich



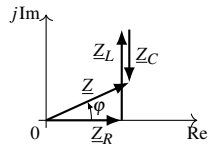
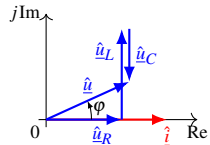
Komplexe Wechselstromrechnung - Beispiel II



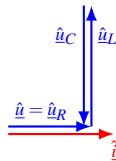
Strom-Spannungs- und Widerstands Diagramm



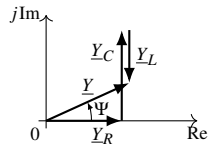
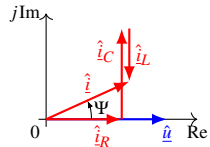
RLC-Serienschwingkreis



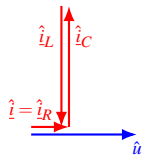
Serienschwingkreis - Bauelementespannungen I



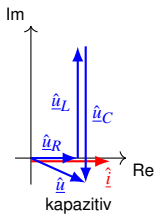
Parallelschwingkreis



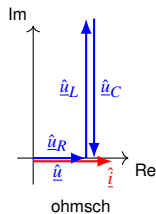
Parallelschwingkreis - Bauelementeströme I



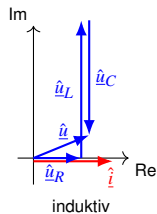
Zeigerdiagramme für Serien-/Parallelschwingkreis



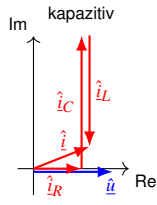
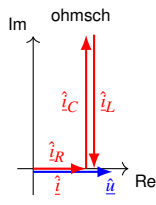
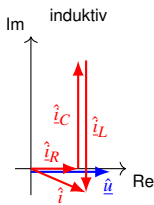
$$f < f_{res}$$



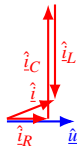
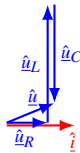
$$\text{Resonanzfall } f = f_{res}$$



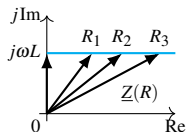
$$f > f_{res}$$



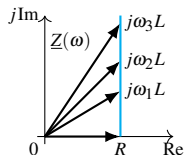
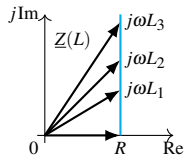
Serien vs. Parallelschwingkreis I



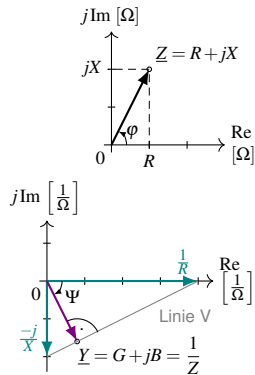
Impedanz RL-Reihenschaltung - R variabel



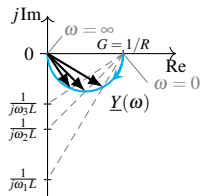
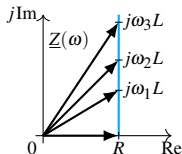
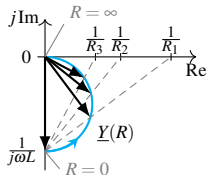
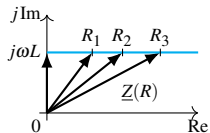
Impedanz RL-Reihenschaltung - L/ω variabel



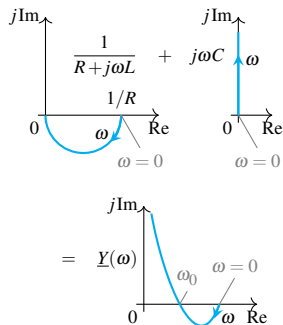
Ortskurve Admittanz: Inversion der Impedanz



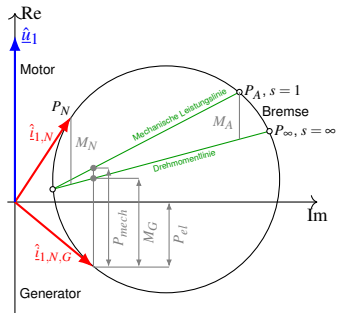
Admittanz RL -Reihenschaltung – R & ω variabel



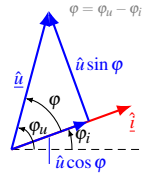
Ortskurven von komplizierten Netzwerken I



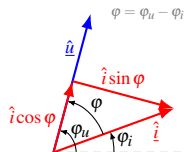
Asynchronmaschine - Ortskurve Statorstrom



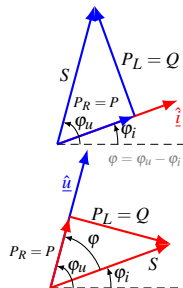
Leistung im Wechselstromkreis - RL -Schaltung I



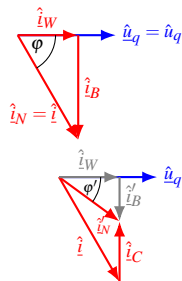
Leistung im Wechselstromkreis - RL -Schaltung II



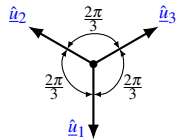
Scheinleistung



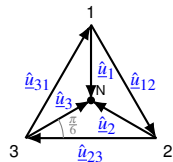
Blindstrom-/leistungskompensation I



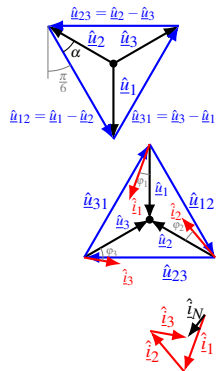
Dreiphasensystem – Sternschaltung I



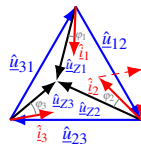
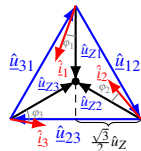
Dreiphasensystem – Sternschaltung II



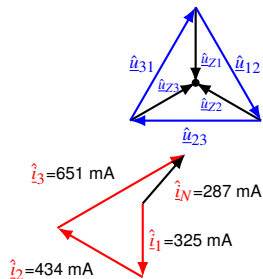
Leistungsberechnung im Drehstromsystem



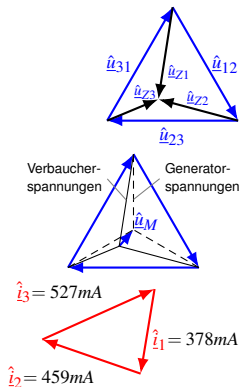
Sternschaltung mit / ohne Sternpunkt



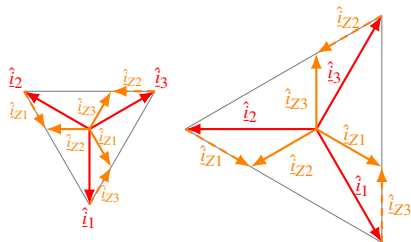
Drei-/Vierleitersystem - Beispiel I



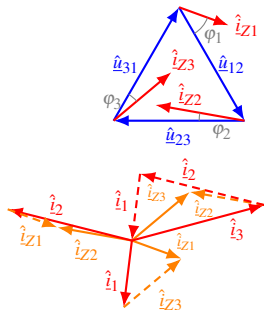
Drei-/Vierleitersystem - Beispiel II



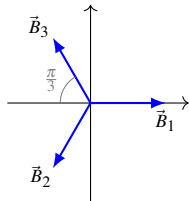
Ergänzung: Leistung bei Dreieckschaltung



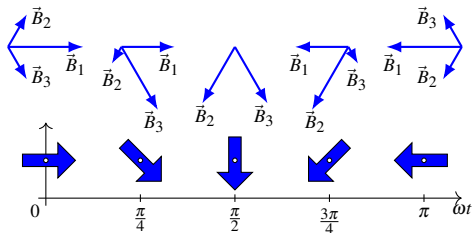
Leistungsberechnung bei Dreieckschaltung II



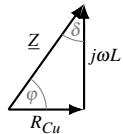
Erzeugung Drehfeld II



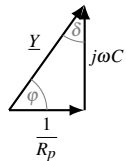
Erzeugung Drehfeld III



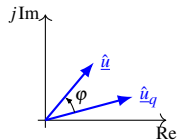
Parasitäre Effekte bei Spulen I



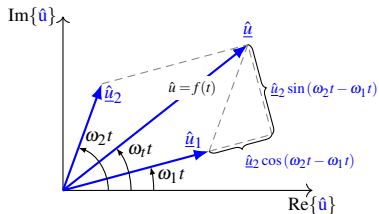
Parasitäre Effekte bei Kondensatoren I



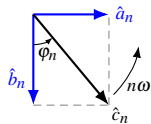
Beschaltung einer Quelle mit Last



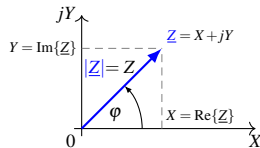
Überlagerung sinusförmiger Schwingungen



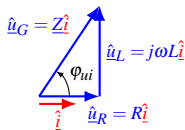
Fourierreihen - Spektralform



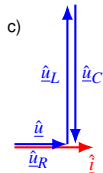
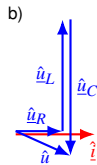
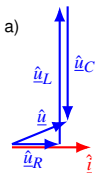
Ergänzung: Periodizität der Tangens-Funktion



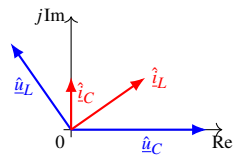
RL-Schaltung mit gleichgerichteter Spannung II



Clicker - RLC Serienschaltung Zeiger a,b,c



Clicker - Zeigerdiagramm L/C



Clicker - Zeigerdiagramm

