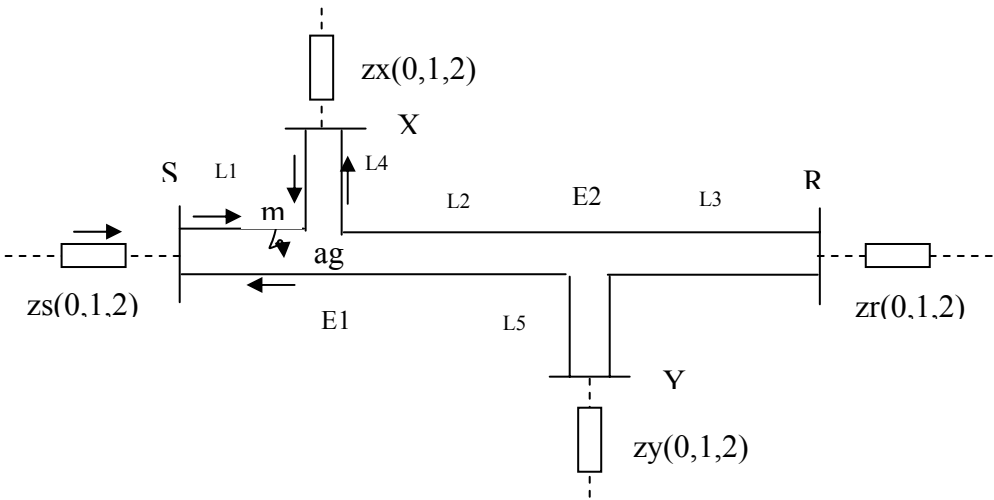


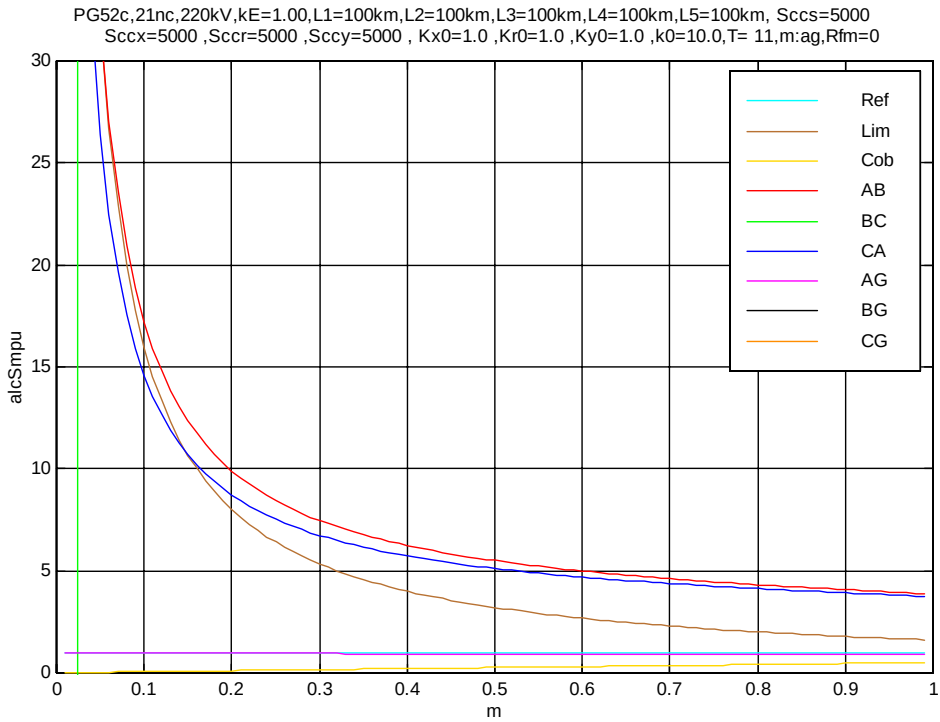
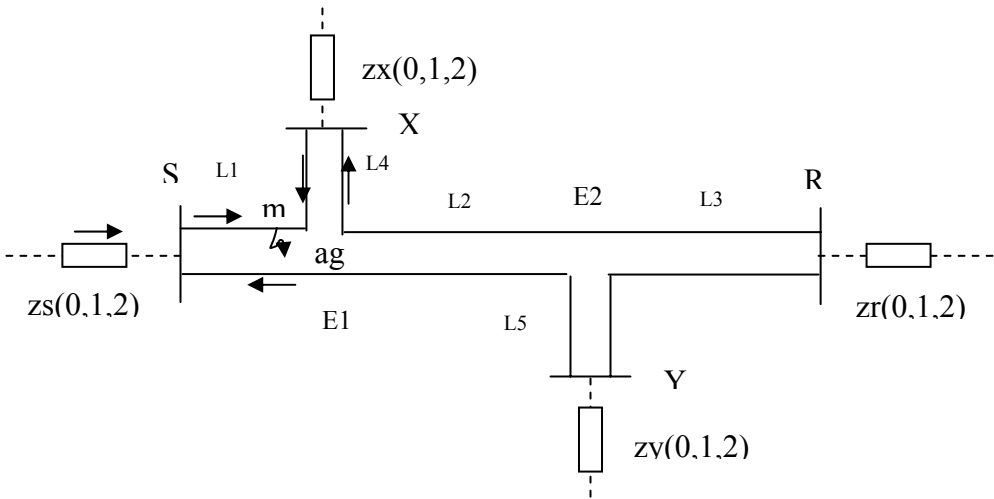
Esquema:



Programa	PG52c		
Entrada Standard	Un=220 kV, kE=1, L1=100 km, L2=100 km, L3=100 km, L4=100 km, L5=100 km, Sccs=5000 MVA, Sccx=5000 MVA, Sccr=5000 MVA, Sccy=5000 MVA, Kx0=1, Kr0=1, Ky0=1		
	Compensación 21= No		
Parámetro	$k0 = zs0/zr0 = 10$		
Falta Simple m	Falta m PosT11 SE1(SX)	m	0 . . . 1
		Tipo	ag
		Elemento	AG
		Rfm	0
		Rgm	--
Salida 1	21 Todas las Unidades pu AB,BC,CA,AG,BG,CG	alcanceSmpu	e01
		alcanceXmpu	e02
Salida 2	21 Todas las Unidades pua AB,BC,CA,AG,BG,CG	alcanceSmpua	f01
		alcanceXmpua	f02
Salida 3	67N	Sx	n01
		Xs	n02

Programa: PG52c
Caso Standard, PosT11, Falta ag: Salida e01

Esquema:

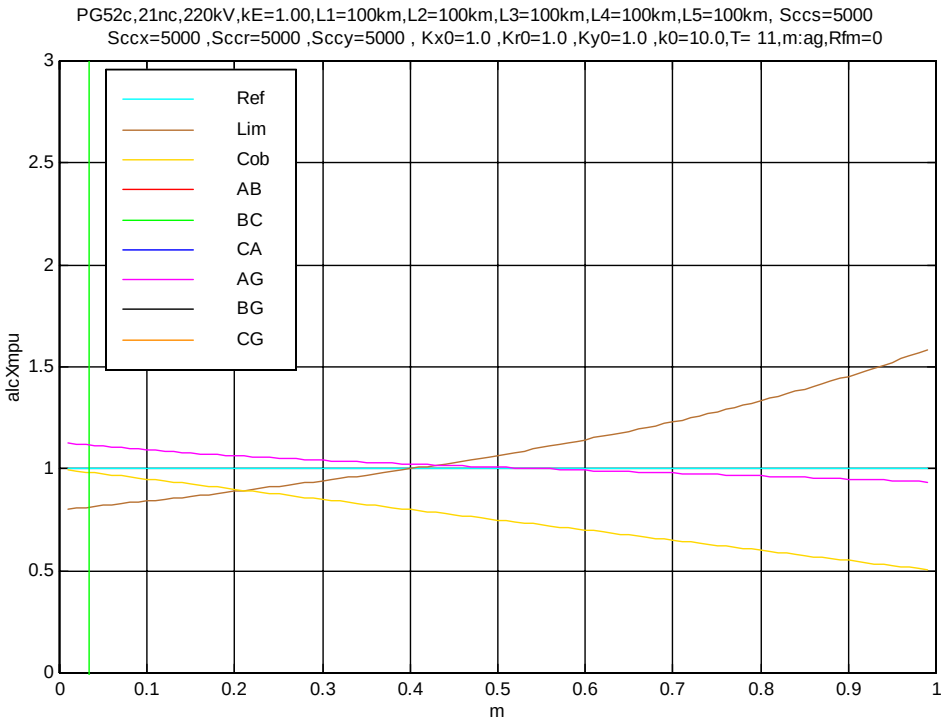
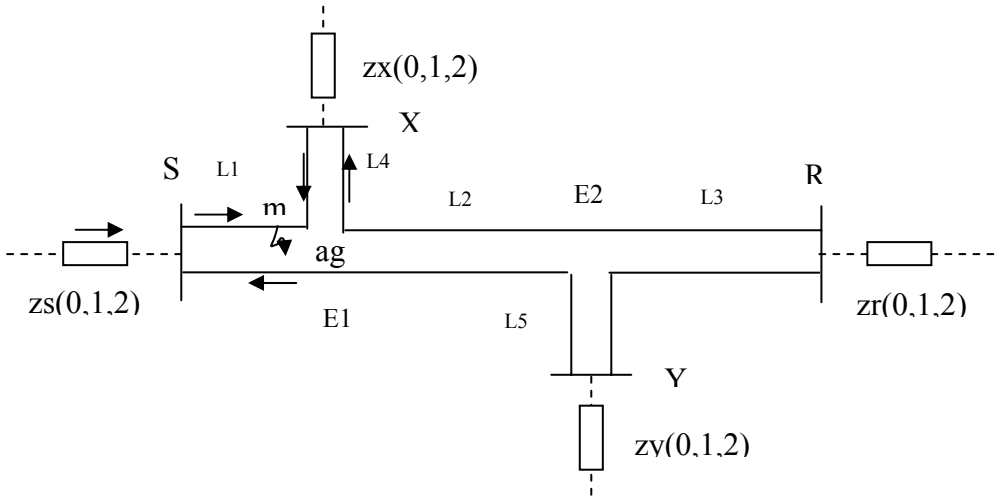


m(Tramo SE1(SX))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	0.01	--	0.10	>Tramo	--	--

Programa: PG52c
Caso Standard, PosT11, Falta ag: Salida e02

Esquema:

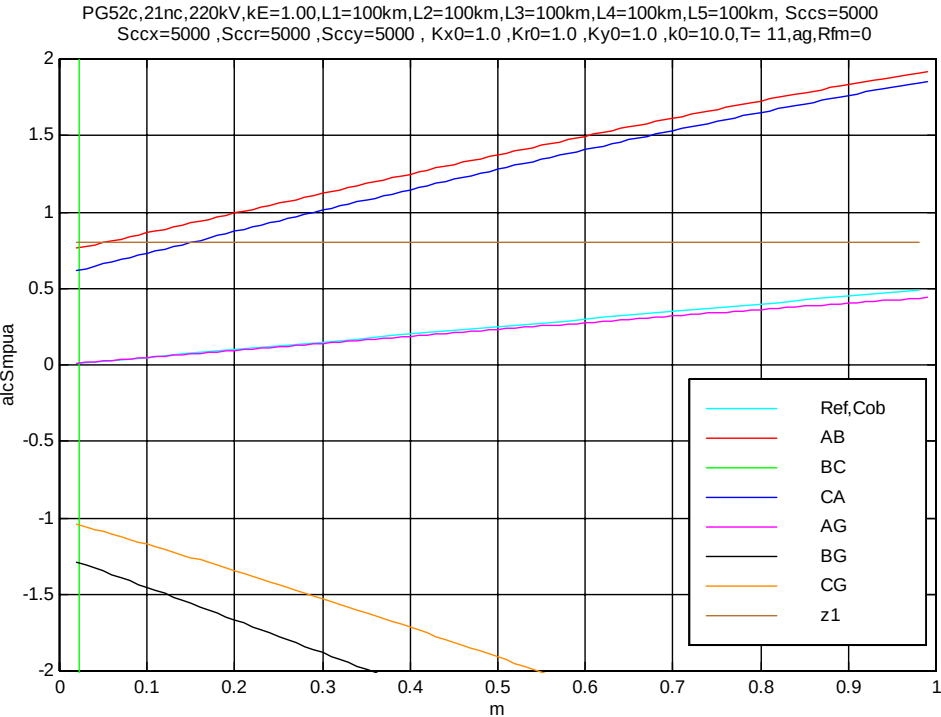
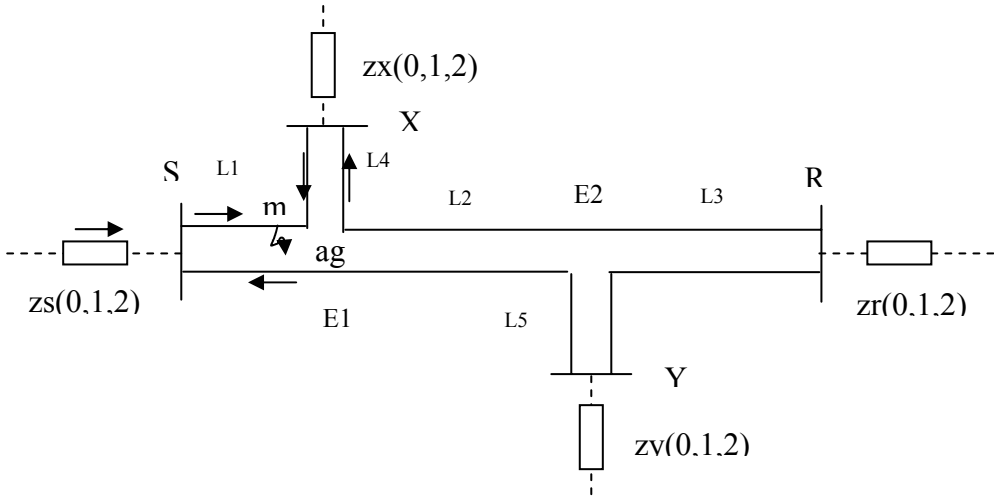


m(Tramo SE1(SX))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	0.80	--	--

Programa: PG52c
Caso Standard, PosT11, Falta ag: Salida f01

Esquema:

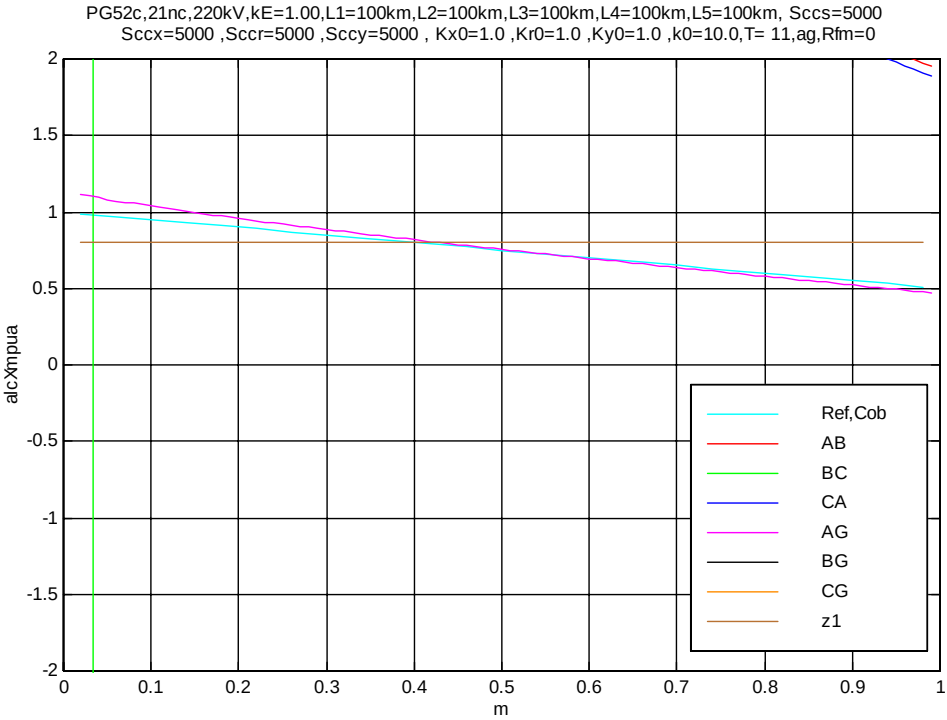
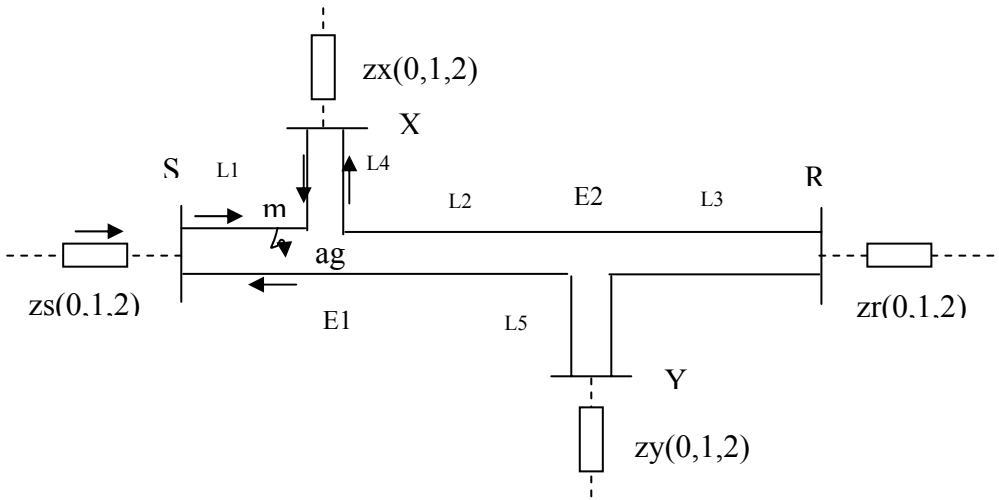


m(Tramo SE1(SX))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	0.01	--	0.10	>Tramo	--	--

Programa: PG52c
Caso Standard, PosT11, Falta ag: Salida f02

Esquema:



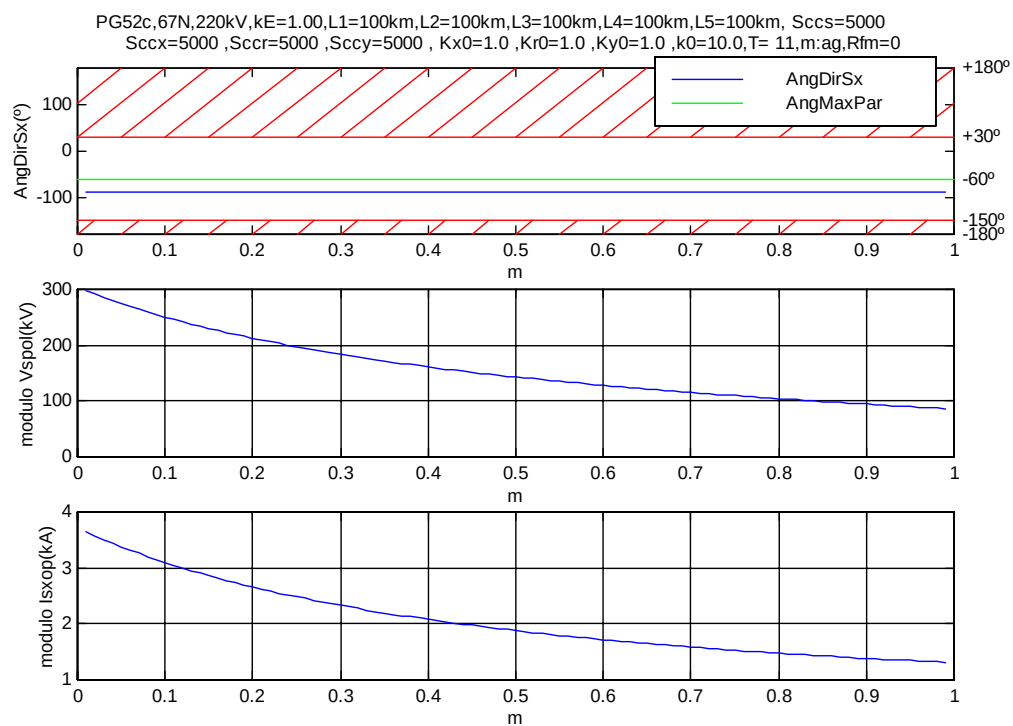
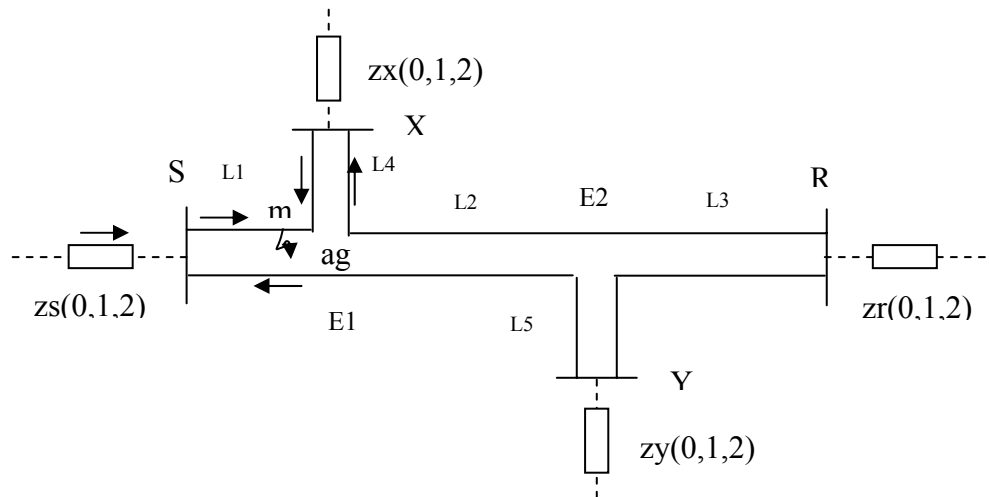
m(Tramo SE1(SX))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	0.80	--	--

Programa: PG52c

Caso Standard, PosT11, Falta ag: Salida n01

Esquema:



m(Tramo SE1(SX))

Direccionalidad: $m=0...1$

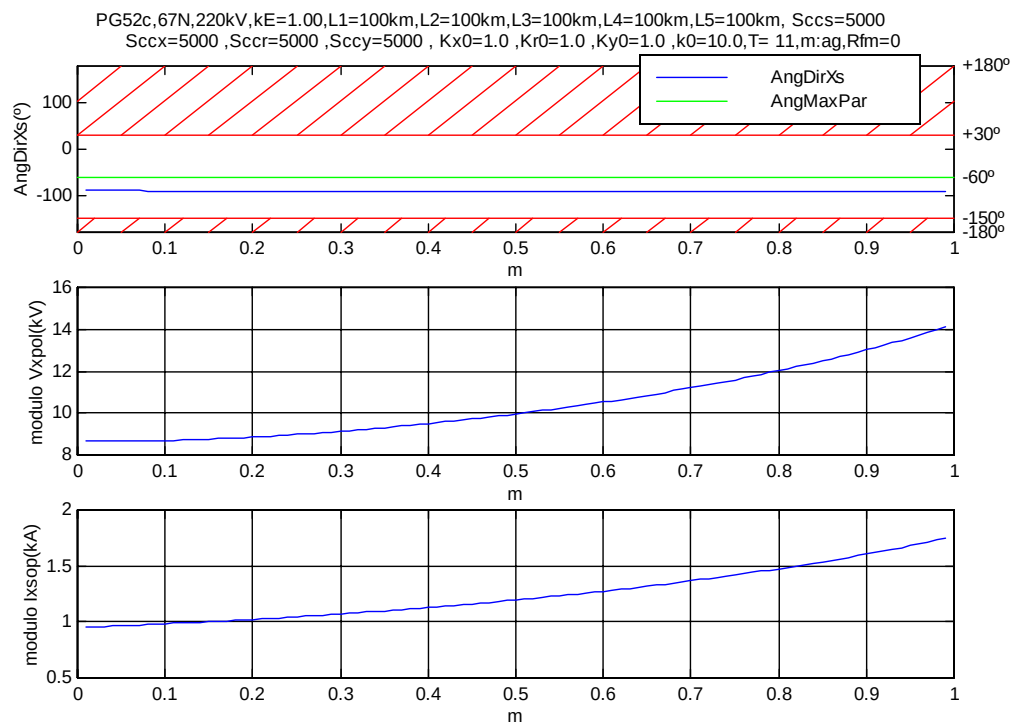
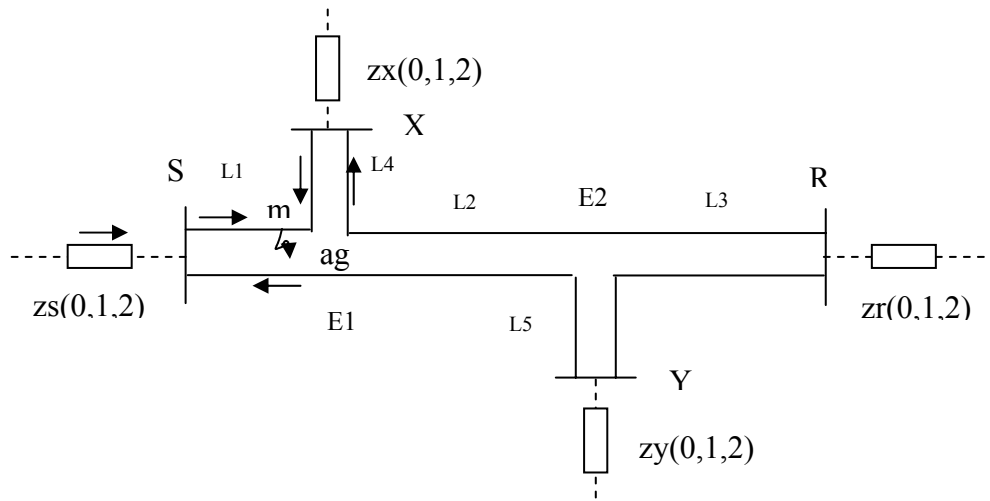
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

Programa: PG52c

Caso Standard, PosT11, Falta ag: Salida n02

Esquema:



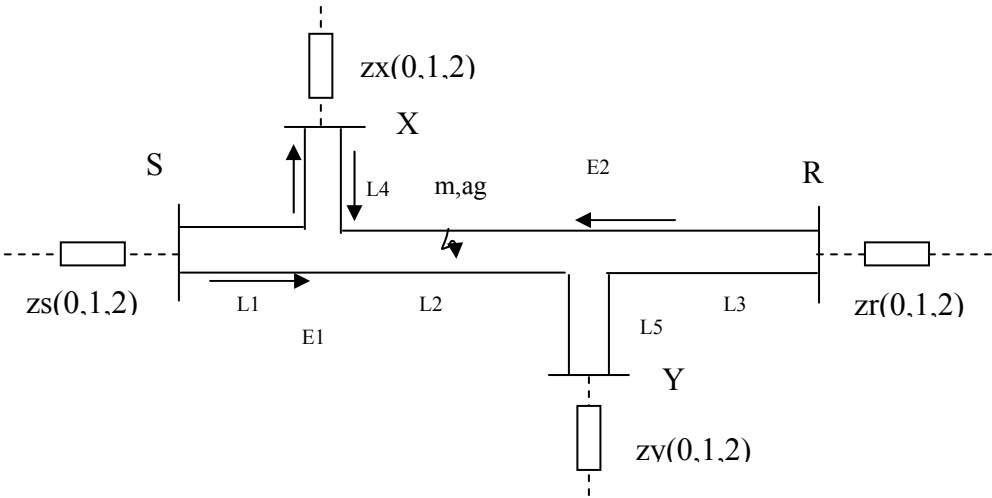
m(Tramo SE1(SX))

Direccionalidad: 1-m=0...1

Sensibilidad de Tensión : decreciente (con 1-m)

Sensibilidad de Corriente: decreciente (con 1-m)

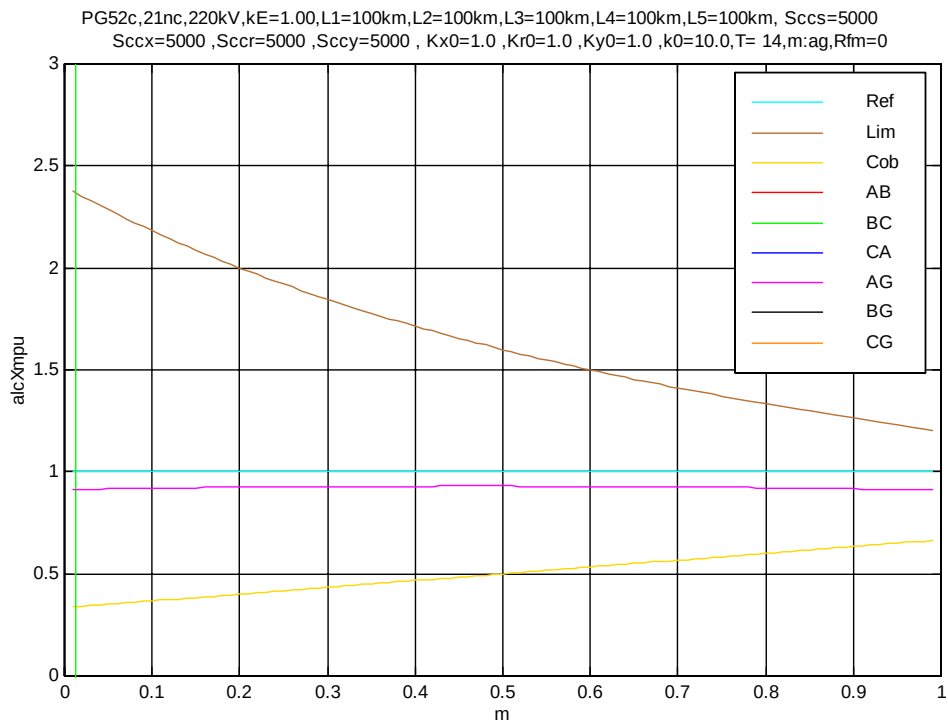
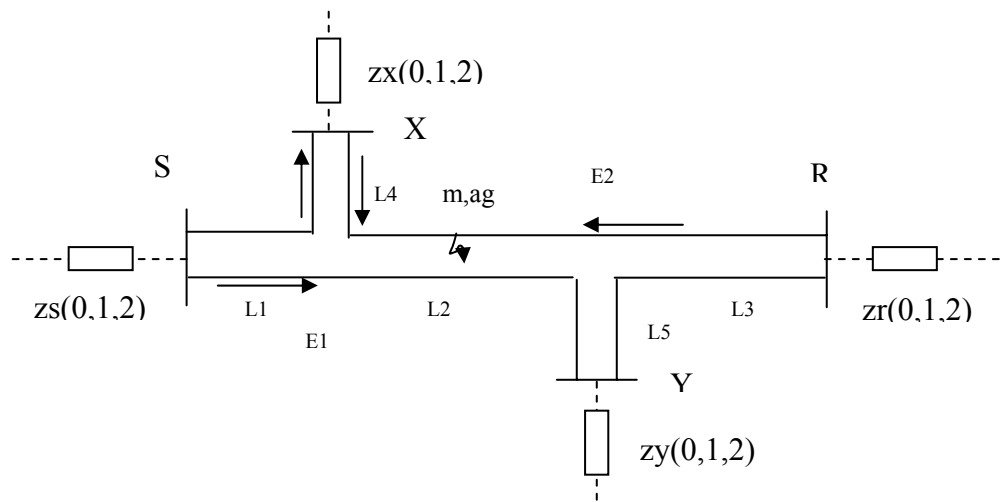
Esquema:



Programa	PG52c		
Entrada Standard	Un=220 kV, kE=1, L1=100 km, L2=100 km, L3=100 km, L4=100 km, L5=100 km, Scs=5000 MVA, Sccx=5000 MVA, Sccr=5000 MVA, Sccy=5000 MVA, Kx0=1, Kr0=1, Ky0=1		
	Compensación 21= No		
Parámetro	$k_0 = z_{s0}/z_{r0} = 10$		
Falta Simple m	Falta m PosT14 E1E2(XR)	m	0 . . . 1
		Tipo	ag
		Elemento	AG
		Rfm	0
		Rgm	--
Salida 1	21 Todas las Unidades pu AB,BC,CA,AG,BG,CG	alcanceXmpu	e01
		alcanceRmpu	e02
Salida 2	21 Todas las Unidades pua AB,BC,CA,AG,BG,CG	alcanceXmpua	f01
		alcanceRmpua	f02
Salida 3	67N	Xr	n01
		Rx	n02

Programa: PG52c
Caso Standard, PosT14, Falta ag: Salida e01

Esquema:

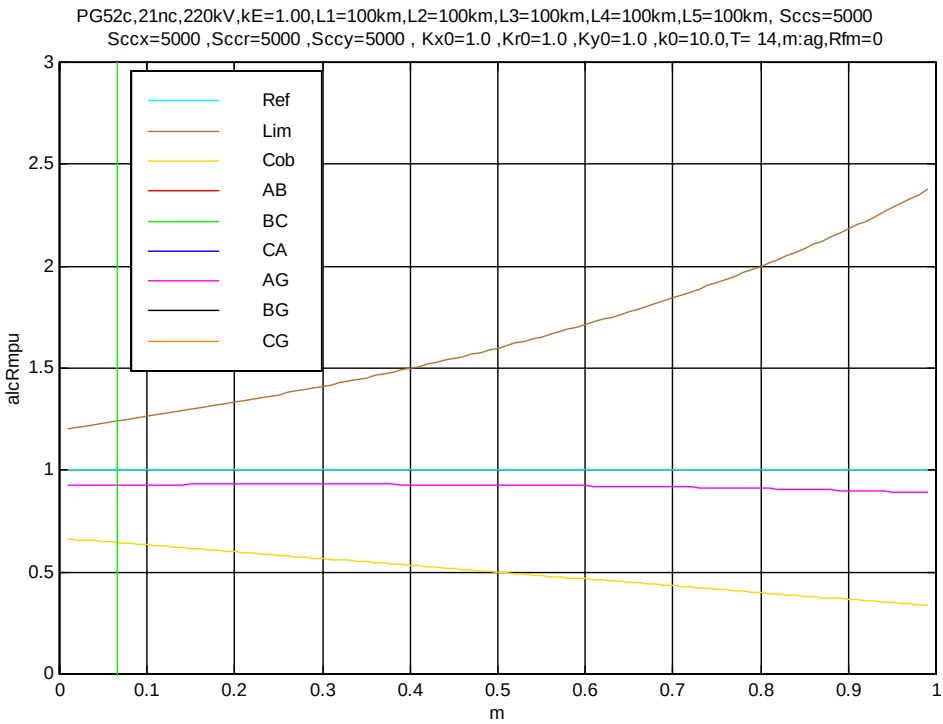
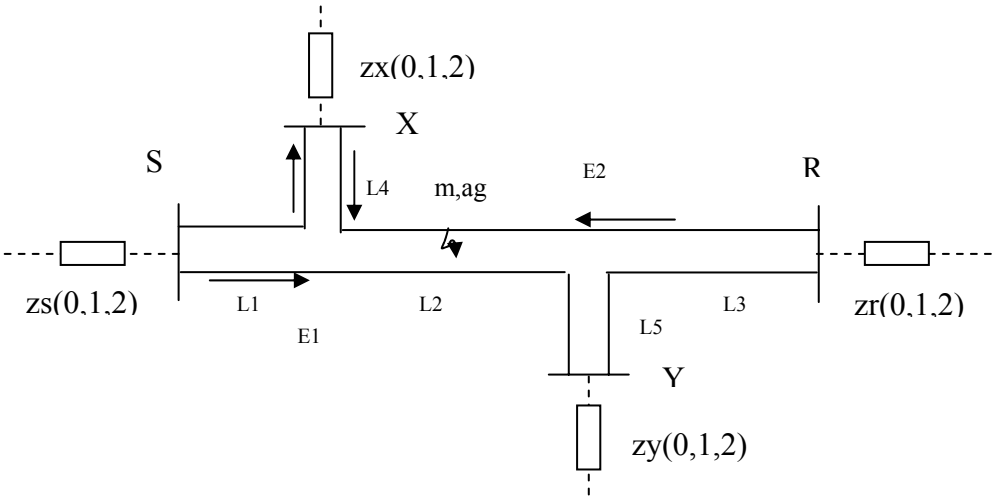


m(Tramo E1E2(XR))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	--	--	--	>Tramo	--	--

Programa: PG52c
Caso Standard, PosT14, Falta ag: Salida e02

Esquema:

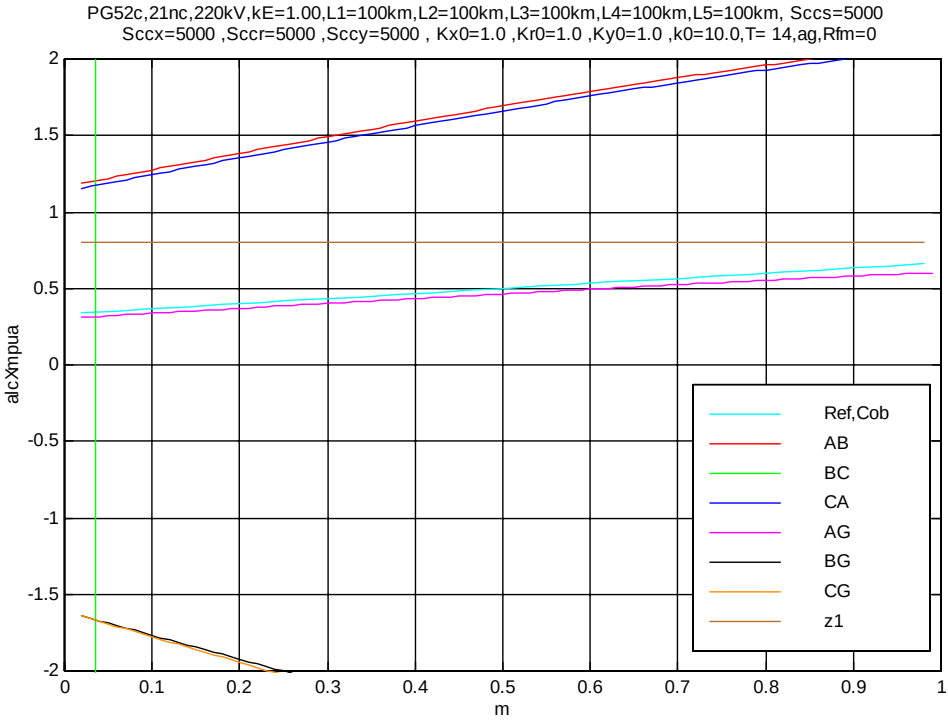
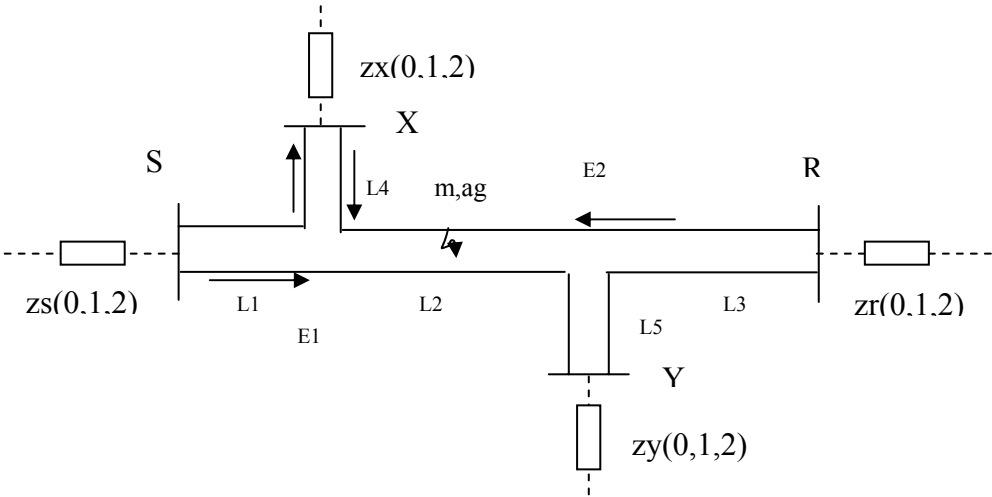


m(Tramo E1E2(XR))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	>Tramo	--	--

Programa: PG52c
Caso Standard, PosT14, Falta ag: Salida f01

Esquema:

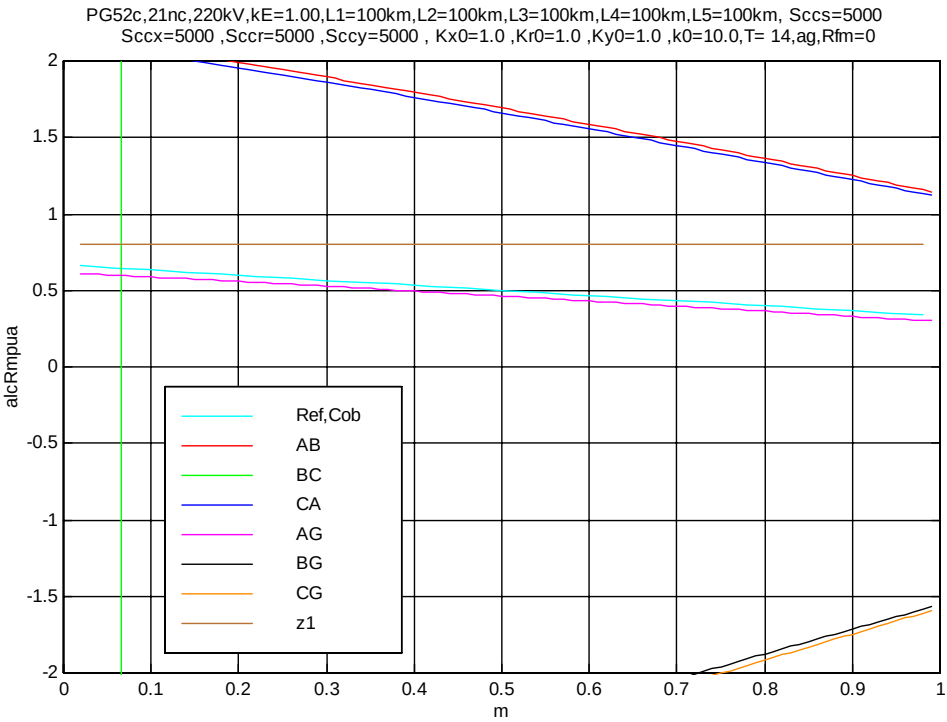
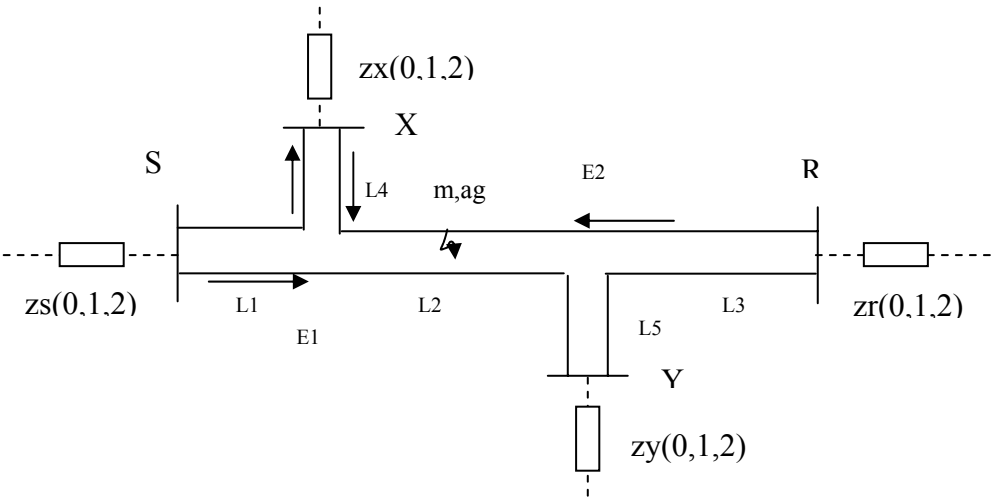


m(Tramo E1E2(XR))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	--	--	--	>Tramo	--	--

Programa: PG52c
Caso Standard, PosT14, Falta ag: Salida f02

Esquema:



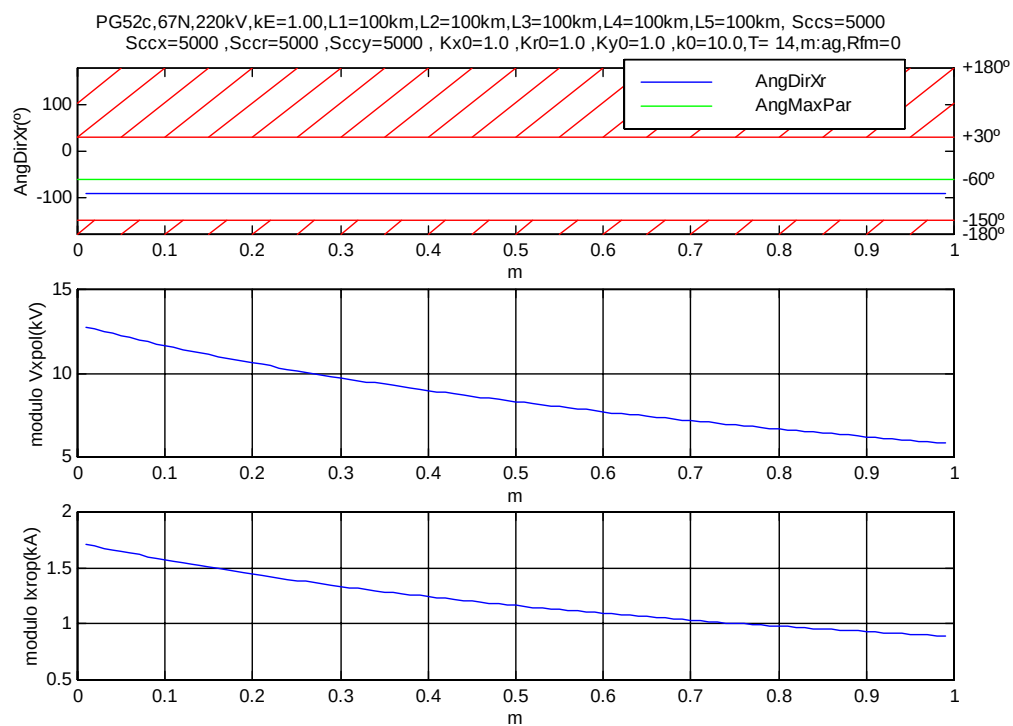
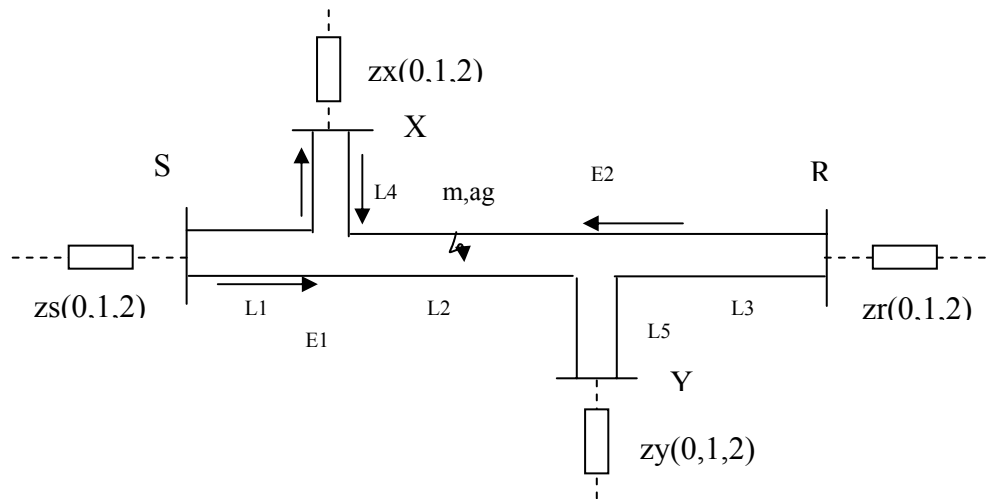
m(Tramo E1E2(XR))

Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	>Tramo	--	--

Programa: PG52c

Caso Standard, PosT14, Falta ag: Salida n01

Esquema:



m(Tramo E1E2(XR))

Direccionalidad: $m=0...1$

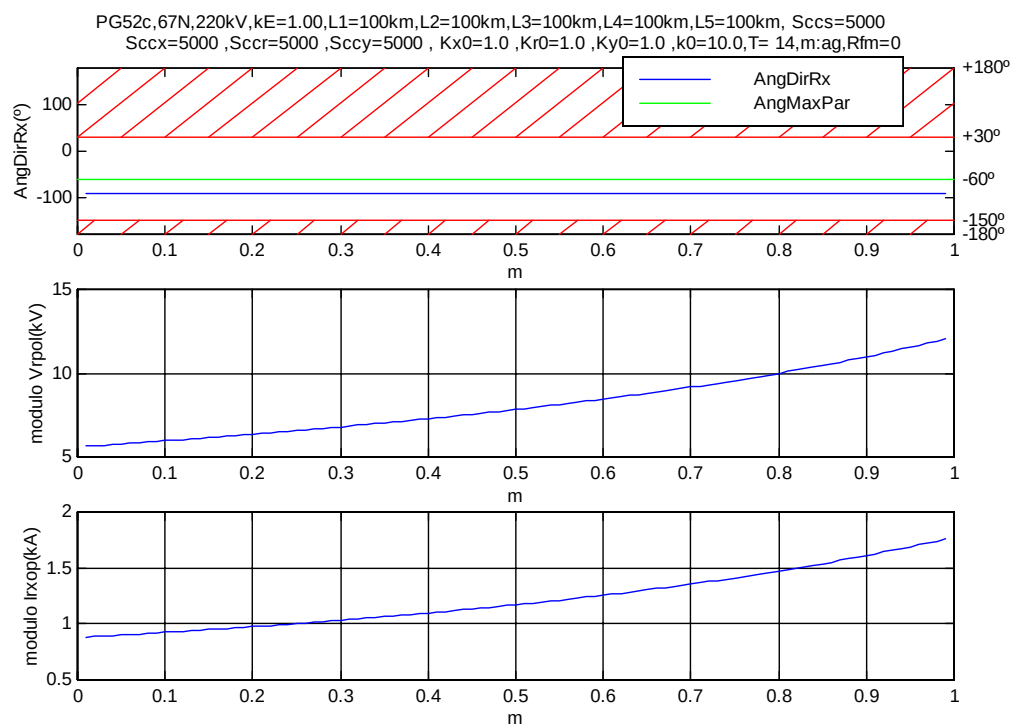
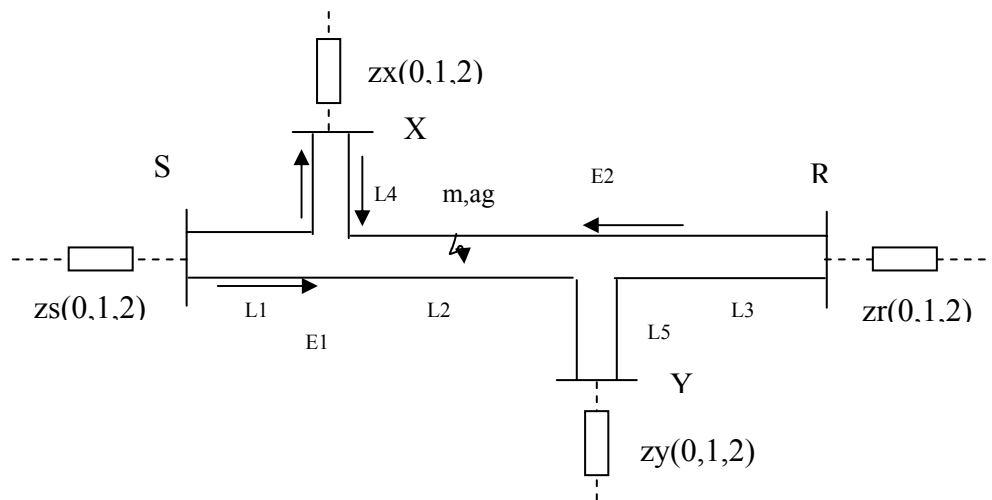
Sensibilidad de Tensión : decreciente (con m)

Sensibilidad de Corriente: decreciente (con m)

Programa: PG52c

Caso Standard, PosT14, Falta ag: Salida n02

Esquema:



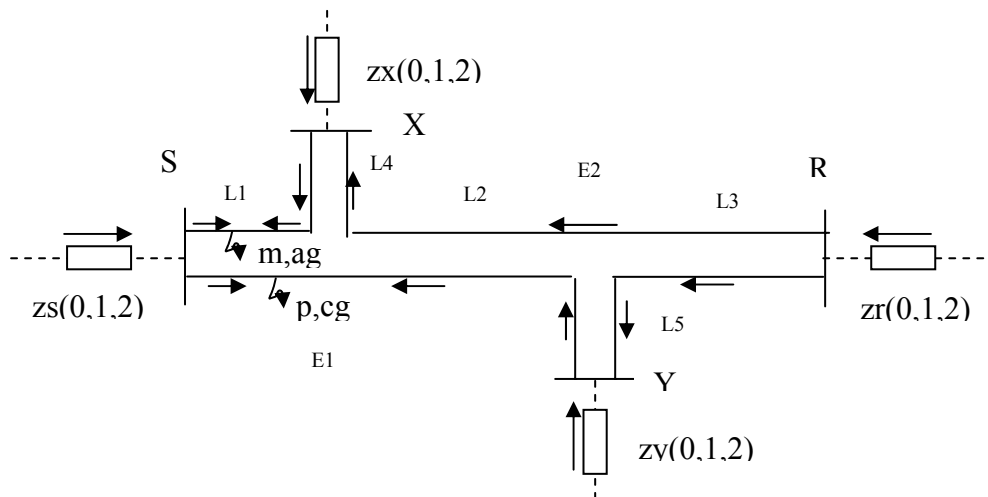
m(Tramo E1E2(XR))

Direccionalidad: 1-m=0...1

Sensibilidad de Tensión : decreciente (con 1-m)

Sensibilidad de Corriente: decreciente (con 1-m)

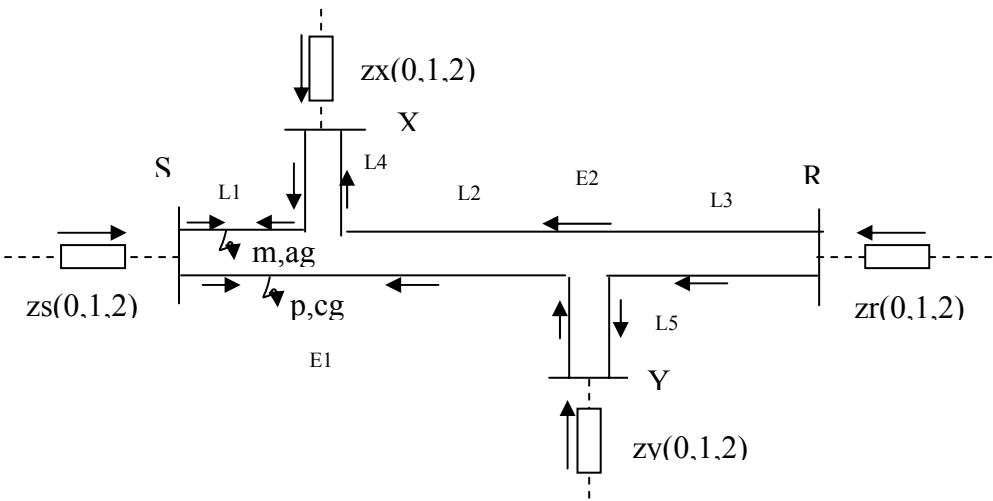
Esquema:



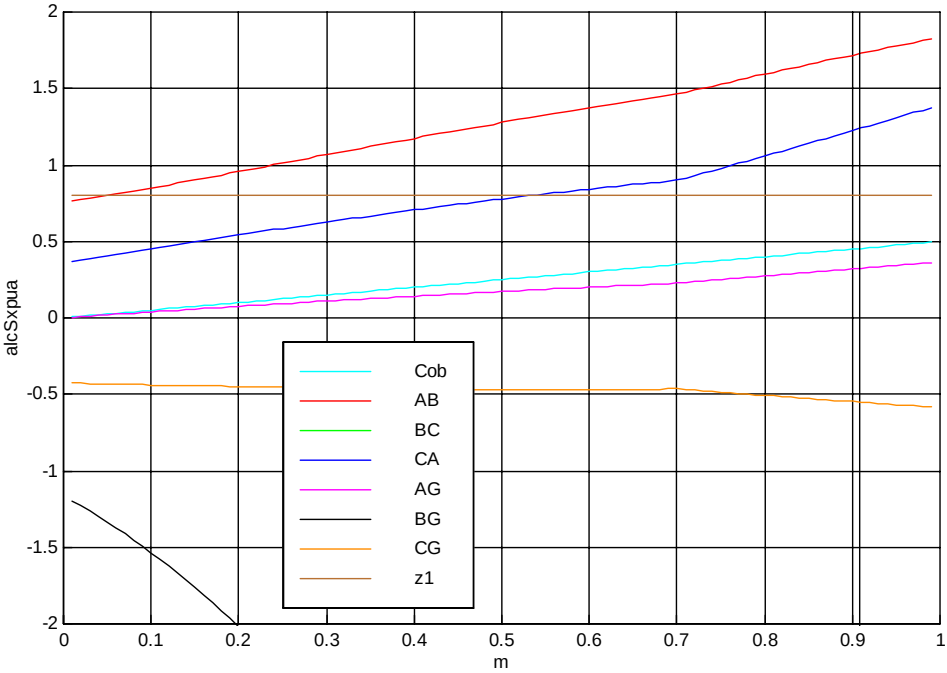
Programa	PG54c		
Entrada Standard	Un=220 kV, kE=1, L1=100 km, L2=100 km, L3=100 km, L4=100 km, L5=100 km, Scs=5000 MVA, Sccx=5000 MVA, Sccr=5000 MVA, Sccy=5000 MVA, Kx0=1, Kr0=1, Ky0=1		
	Compensación 21= No		
Parámetro	$k0 = z_{s0}/z_{r0} = 10$		
Falta Doble m,p	Falta m Tramo T1 Línea Sup	m	0 . . . 1 (Tramo)
		Tipo	ag
		Elemento	AG
		Rfm	0
		Rgm	--
	Falta p Tramo T1 Línea Inf.	p	0.7 (Tramo)
		Tipo	cg
		Elemento	AG
		Rfm	0
		Rgm	--
Salida 1	21 Todas las Unidades pua AB,BC,CA,AG,BG,CG	alcanceSxpua	f01
		alcanceSypua	f02
		alcanceXspua	f03
		alcanceYspua	f04
Salida 2	67N	Sx	n01
		Sy	n02
		Xs	n03
		Ys	n04
Salida 3	21 R-X	Sx	z01
		Sy	z02
		Xs	z03
		Ys	z04

Programa PG54c
Caso Standard, TramoT1, Falta ag-cg: Salida f01

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000, Sccx=5000, Sccr=5000
Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0

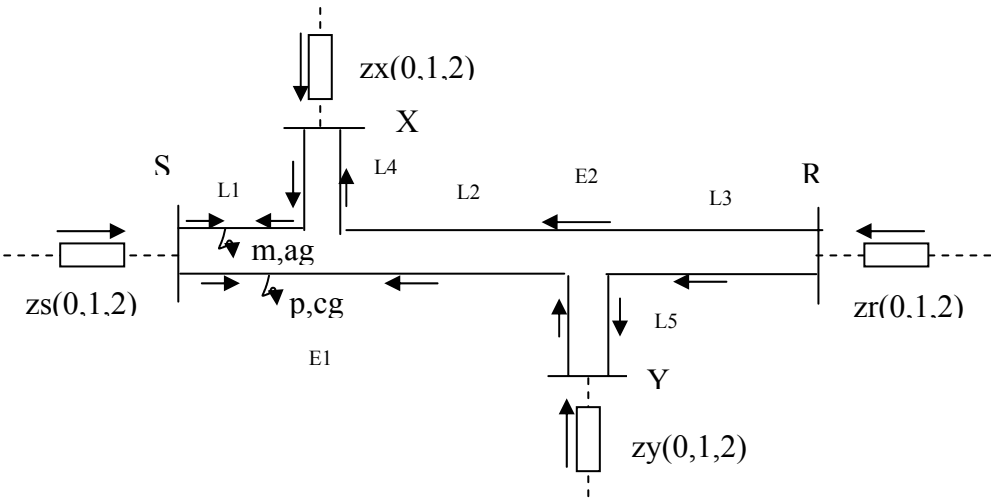


m(Tramo SE1(SX)) ; p(Tramo SE1(SY)), p fijo

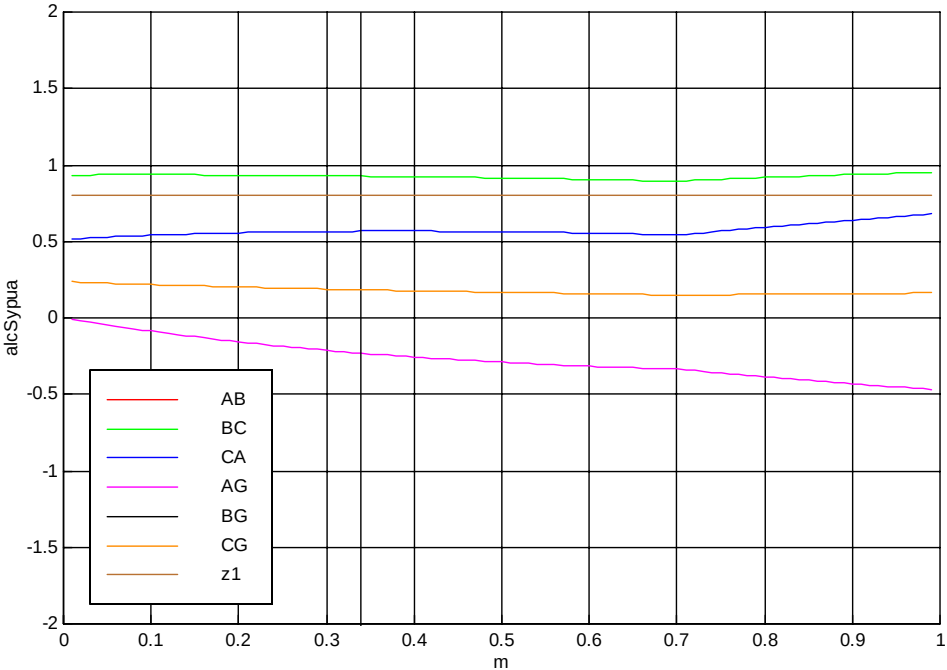
Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	0.01	--	0.25	>Tramo	--	--

Programa PG54c
Caso Standard, TramoT1, Falta ag-cg: Salida f02

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000 , Sccx=5000 , Scrr=5000
Sccy=5000 ,Kx0=1.00 ,Kr0=1.00 ,Ky0=1.00 ,k0=10.00 ,m: SE1(SX),ag,Rfm=0 , p=0.70,SE1(SY),cg,Rfp=0

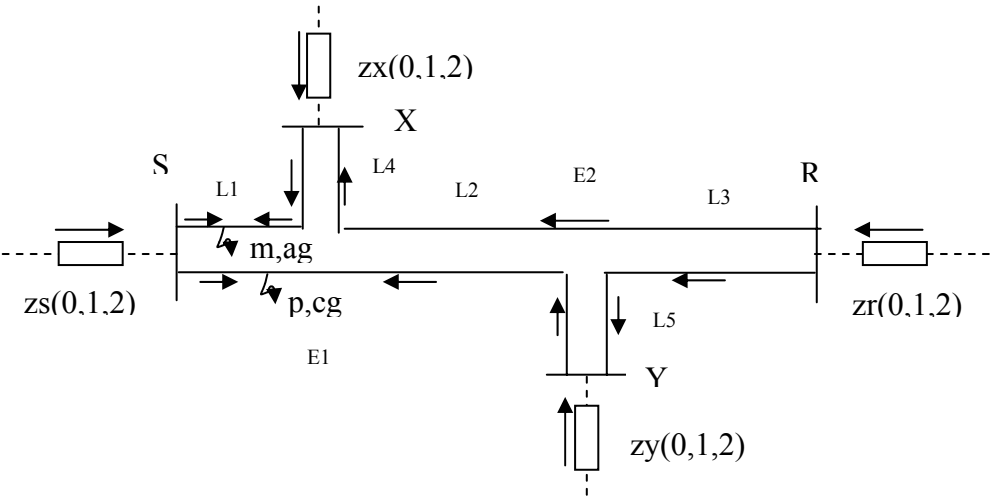


m(Tramo SE1(SX)) ; p(Tramo SE1(SY)), p fijo

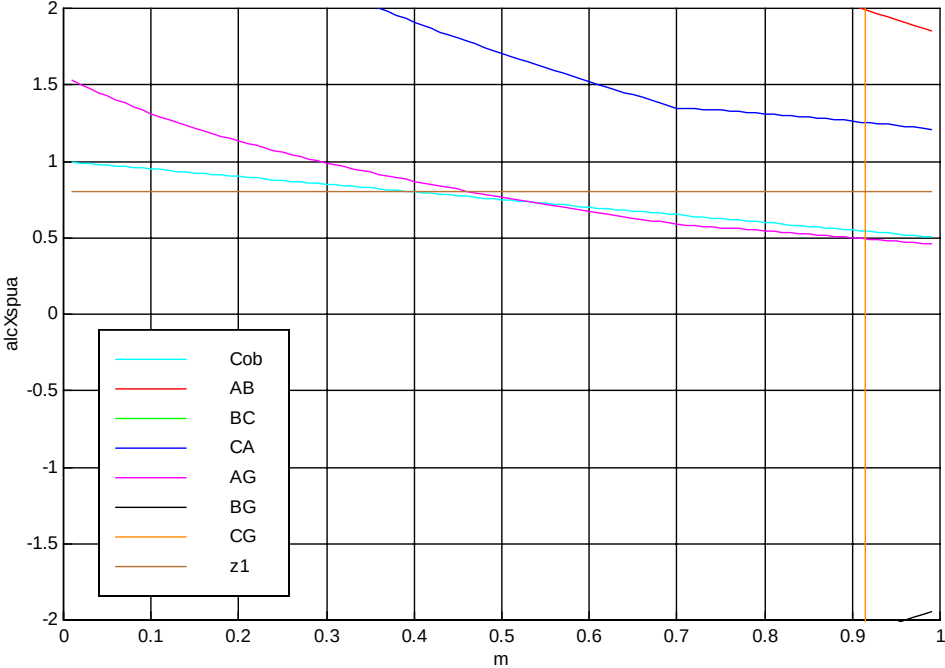
Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	--	--	>Tramo	0.60	--	>Tramo

Programa PG54c
Caso Standard, Tramo T1, Falta ag-cg: Salida f03

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000, Sccx=5000, Sccr=5000
Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0

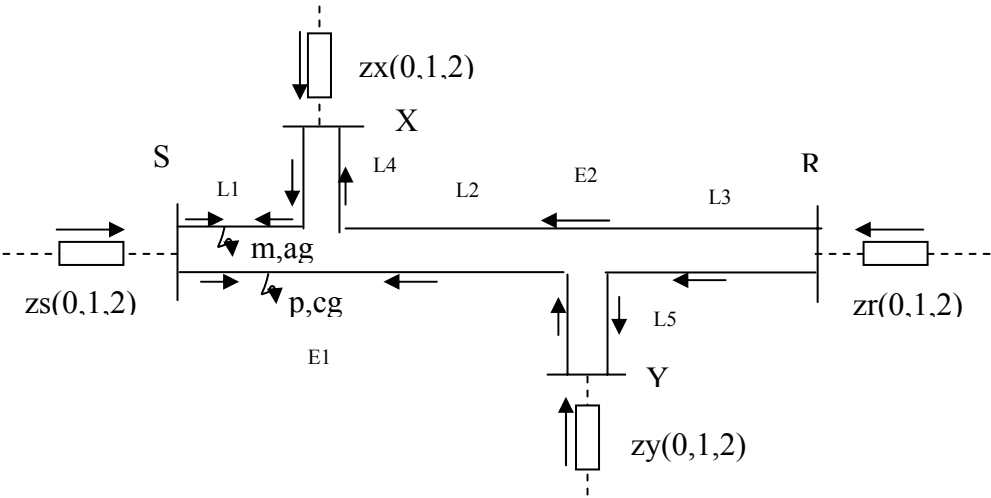


m(Tramo SE1(SX)) ; p(Tramo SE1(SY)), p fijo

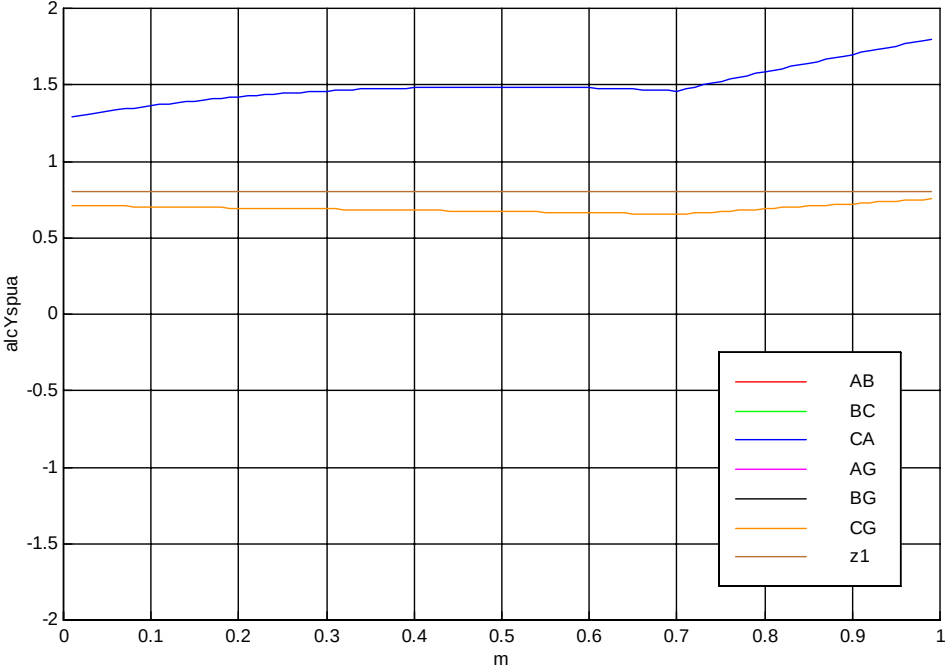
Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	0.78	--	--

Programa PG54c
Caso Standard, Tramo T1, Falta ag-cg: Salida f04

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000, Sccx=5000, Sccr=5000
Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0



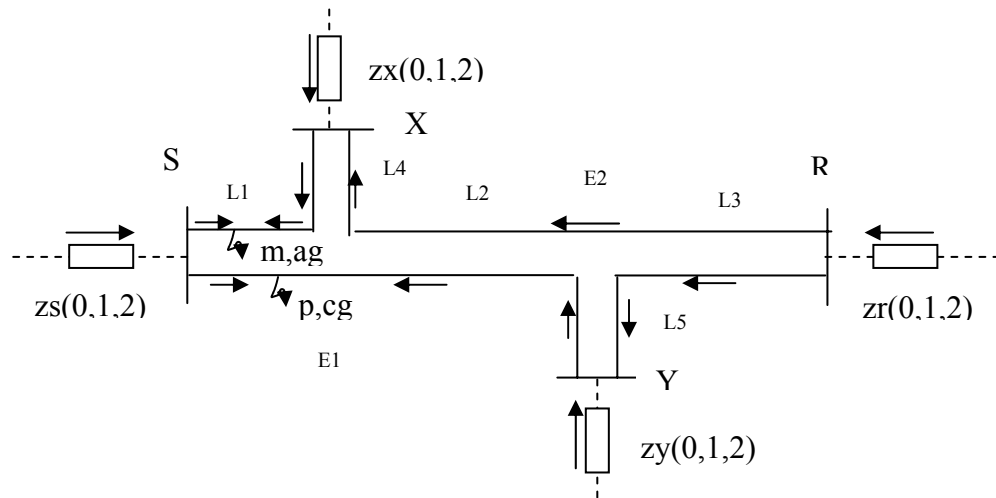
m(Tramo SE1(SX)) ; p(Tramo SE1(SY)), p fijo

Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	--	--	>Tramo

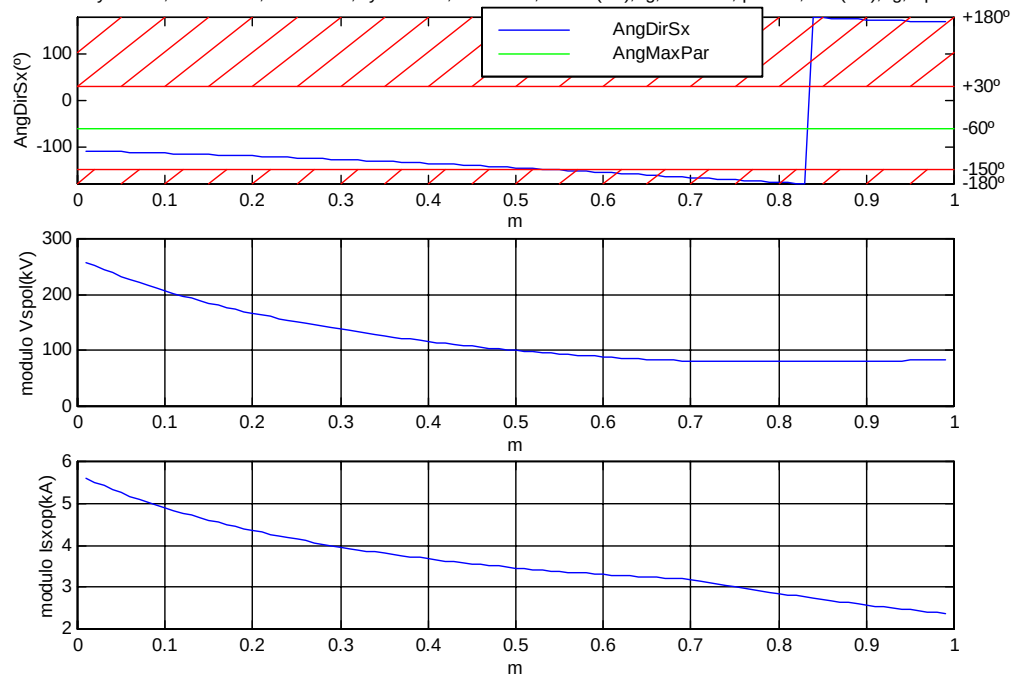
Programa PG54c

Caso Standard, Tramo T1, Falta ag-cg: Salida n01

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $Sccs=5000$, $Sccx=5000$, $Sccr=5000$, $Sccy=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:SE1(SX),ag$, $Rfm=0$, $p=0.70$, $SE1(SY),cg$, $Rfp=0$



$m(\text{Tramo } SE1(SX))$; $p(\text{Tramo } SE1(SY)), p \text{ fijo}$

Direccionalidad: $0 < m < 0.5$

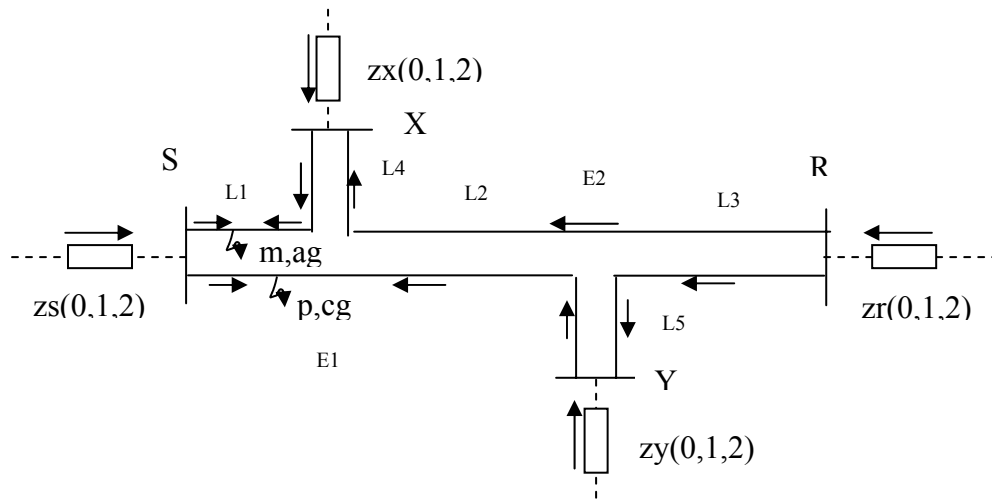
Sensibilidad de Tensión : decreciente (con m) ; cambio de pendiente en $m=0.7$

Sensibilidad de Corriente: decreciente (con m) ; cambio de pendiente en $m=0.7$

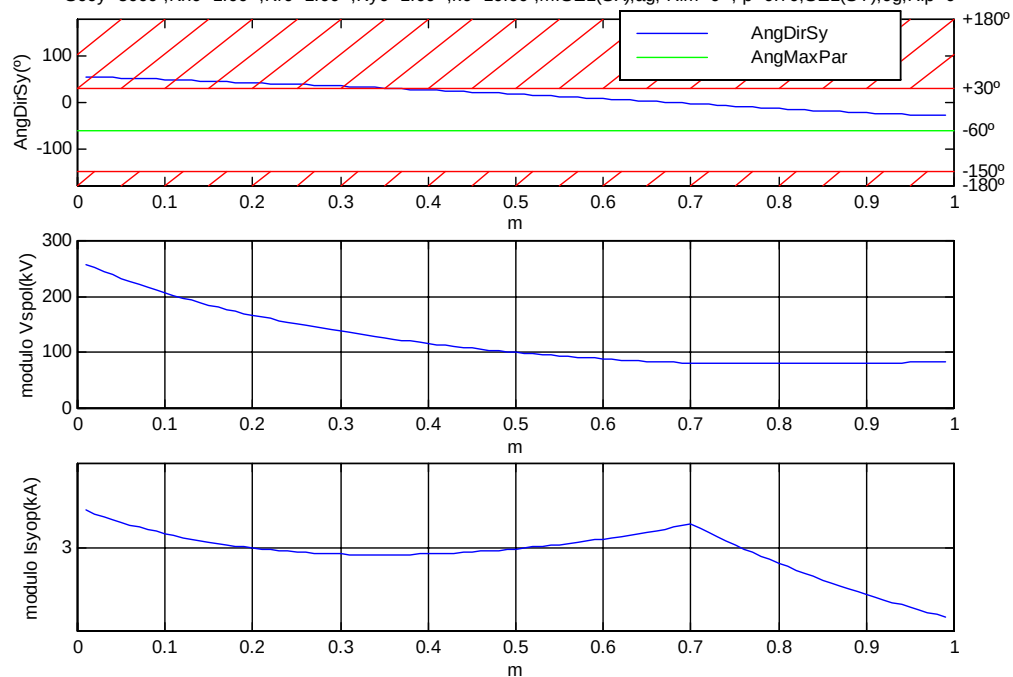
Programa PG54c

Caso Standard, Tramo T1, Falta ag-cg: Salida n02

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $Sccs=5000$, $Sccx=5000$, $Sccr=5000$, $Sccy=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:SE1(SX), ag$, $Rfm=0$, $p=0.70$, $SE1(SY), cg$, $Rfp=0$



$m(\text{Tramo SE1(SX)})$; $p(\text{Tramo SE1(SY)})$, p fijo

Direccionalidad: $0.5 < m < 1.0$

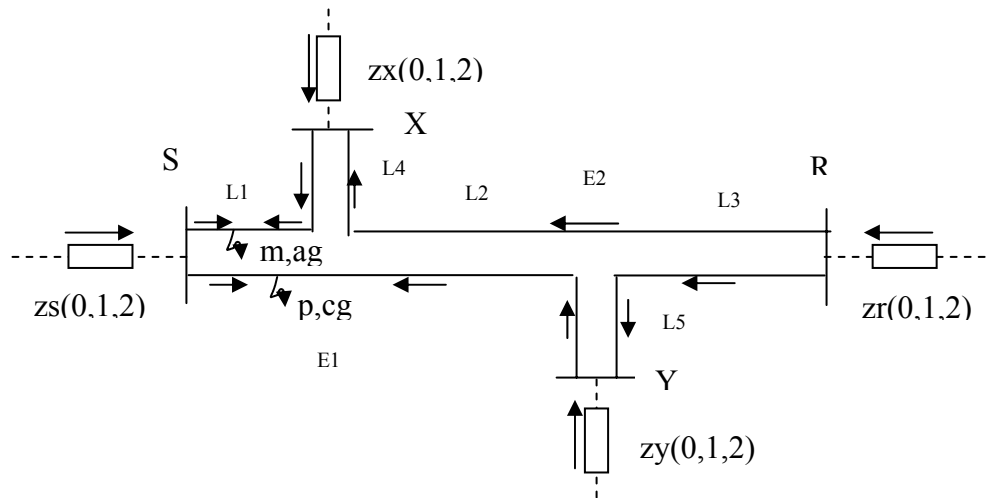
Sensibilidad de Tensión : decreciente (con m) ; cambio en $m=0.7$

Sensibilidad de Corriente: $0 < m < 0.7$ decreciente-creciente ; $m > 0.7$ decreciente

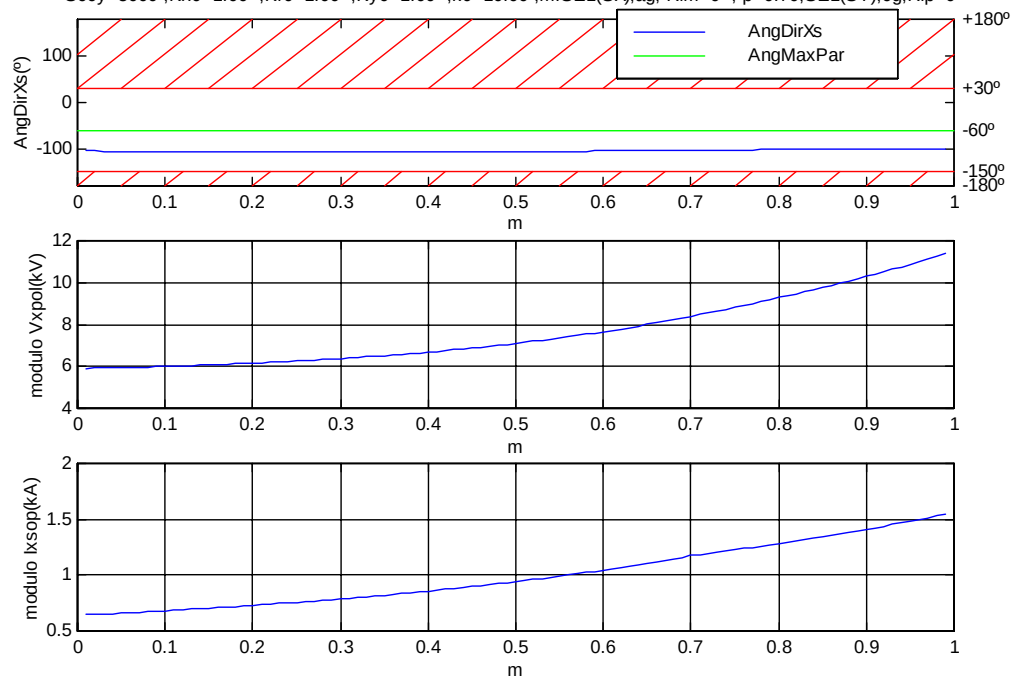
Programa PG54c

Caso Standard, Tramo T1, Falta ag-cg: Salida n03

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $S_{ccs}=5000$, $S_{ccx}=5000$, $S_{ccr}=5000$, $S_{ccy}=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:SE1(SX), ag$, $Rfm=0$, $p=0.70$, $SE1(SY), cg$, $Rfp=0$



$m(\text{Tramo } SE1(SX))$; $p(\text{Tramo } SE1(SY)), p \text{ fijo}$

Direccionalidad: $1-m=0\dots 1$

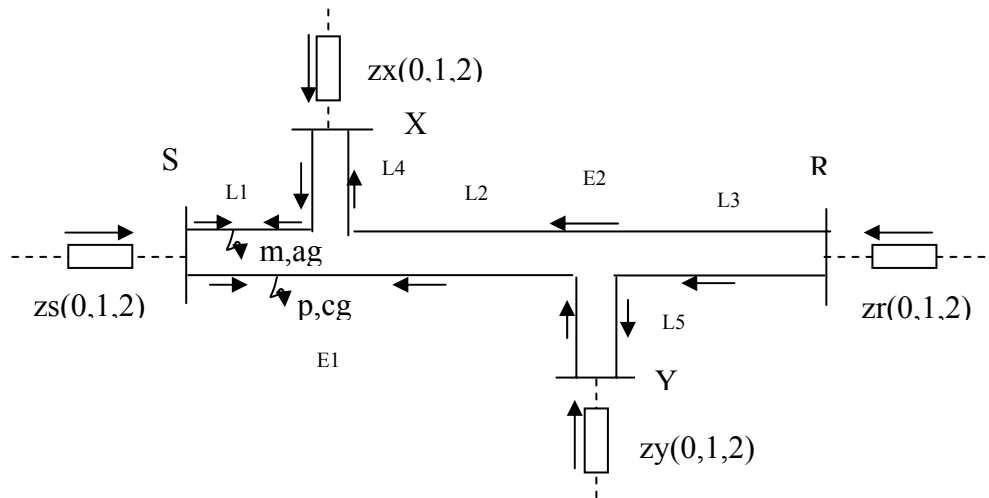
Sensibilidad de Tensión : decreciente (con $1-m$)

Sensibilidad de Corriente: decreciente (con $1-m$)

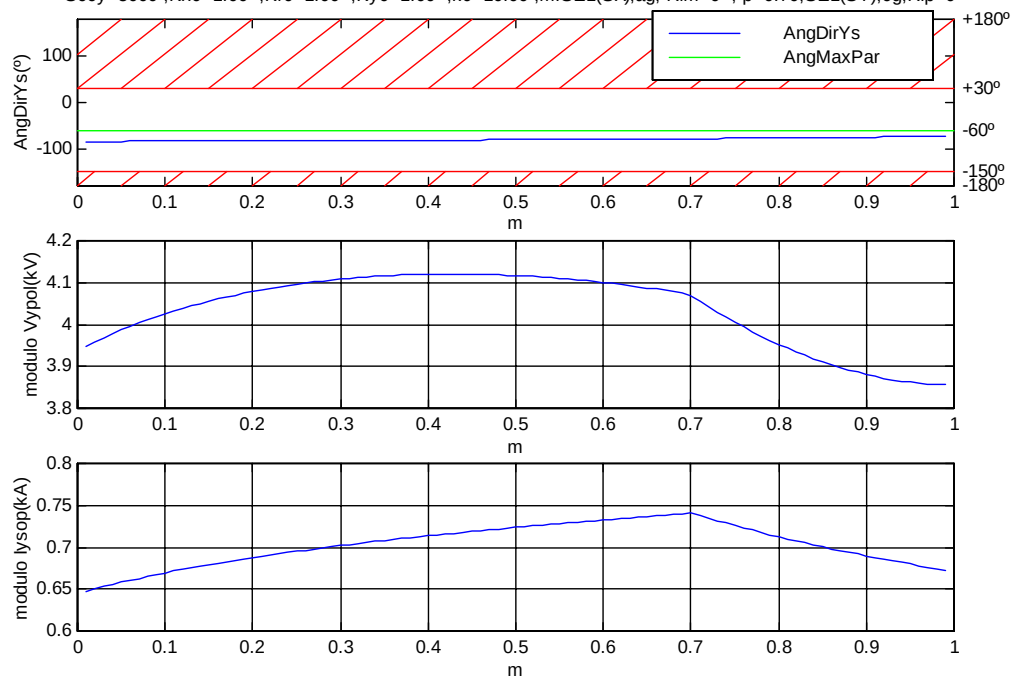
Programa PG54c

Caso Standard, Tramo T1, Falta ag-cg: Salida n04

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $Sccs=5000$, $Sccx=5000$, $Sccr=5000$, $Sccy=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:SE1(SX), ag$, $Rfm=0$, $p=0.70$, $SE1(SY), cg$, $Rfp=0$



$m(\text{Tramo } SE1(SX))$; $p(\text{Tramo } SE1(SY))$, p fijo

Direccionalidad: $1-m=0\dots 1$

Sensibilidad de Tensión : $0<1-m<0.3$ creciente; $1-m>0.7$ estable-decreciente

Sensibilidad de Corriente: Crítica: $0<1-m<0.3$ creciente; $1-m>0.3$ decreciente

Caso Standard, Tramo T1, Falta ag-cg: Salida z01

The diagram illustrates a three-dimensional flow network with three intersecting channels: X (vertical), Y (horizontal), and Z (diagonal). The flow variables are defined as follows:

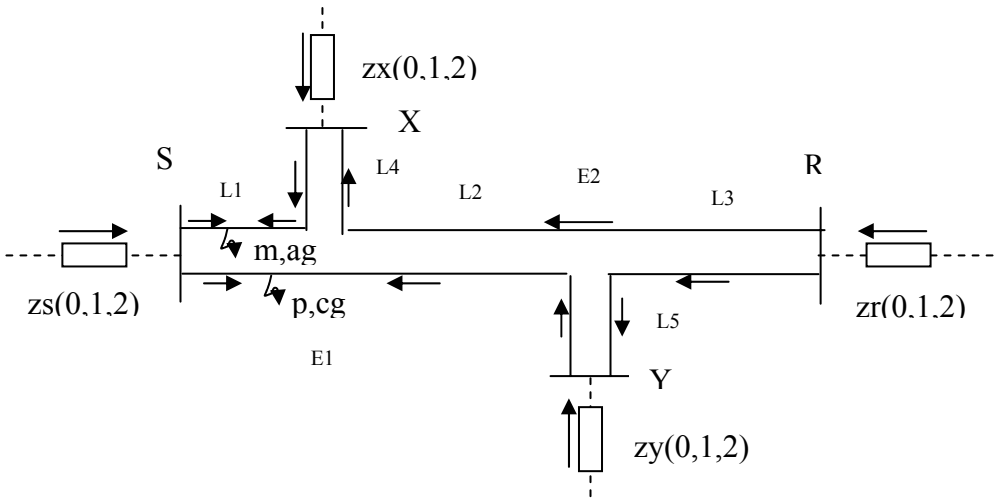
- Channel X (Vertical):**
 - $zx(0,1,2)$: Flow variable at the top of the vertical channel.
 - $L1, L4$: Lengths of the vertical channel segments.
 - $E1$: Flow variable at the bottom of the vertical channel.
- Channel Y (Horizontal):**
 - $zy(0,1,2)$: Flow variable at the bottom of the horizontal channel.
 - $L2, L3$: Lengths of the horizontal channel segments.
 - $E2$: Flow variable at the top of the horizontal channel.
- Channel Z (Diagonal):**
 - $zs(0,1,2)$: Flow variable at the left end of the diagonal channel.
 - $zr(0,1,2)$: Flow variable at the right end of the diagonal channel.
 - $L5$: Length of the diagonal channel segment.

The flow variables are represented by arrows indicating the direction of flow. The channels are labeled X, Y, and Z, and the flow variables are labeled $zx(0,1,2)$, $zy(0,1,2)$, $zs(0,1,2)$, and $zr(0,1,2)$. The lengths of the channel segments are labeled $L1, L2, L3, L4, L5$. The flow variables at the ends of the channels are labeled $E1$ and $E2$. The flow variables at the junctions are labeled m, ag and p, cg .

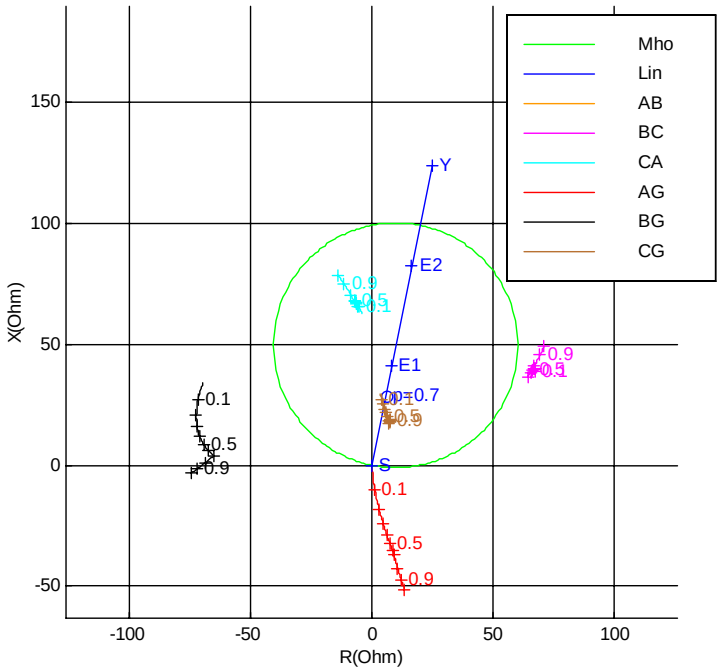
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	0.01	--	0.25	>Tramo SE1	--	--

Programa PG54c
Caso Standard, Tramo T1, Falta ag-cg: Salida z02

Esquema:

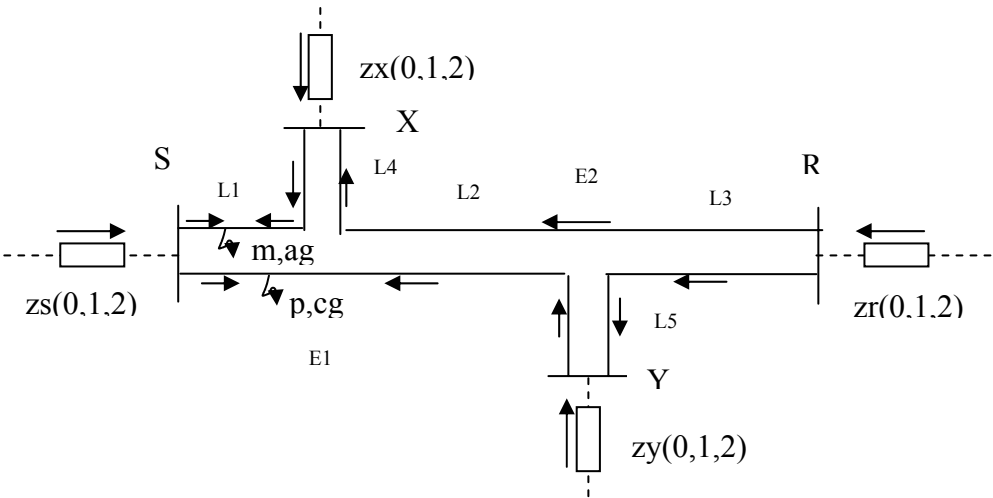


PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scs=5000, Scx=5000, Sccr=5000
Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0, Extr: Sy

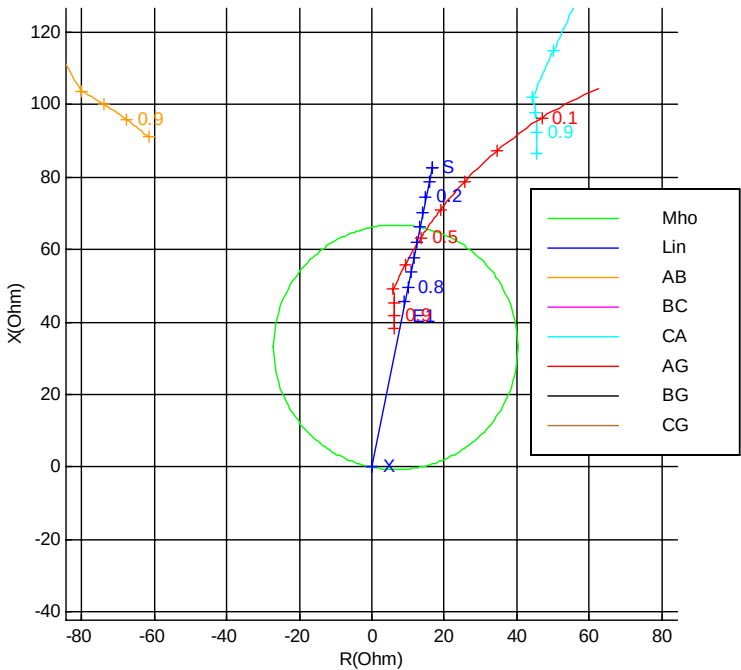


Programa PG54c
Caso Standard, Tramo T1, Falta ag-cg: Salida z03

Esquema:



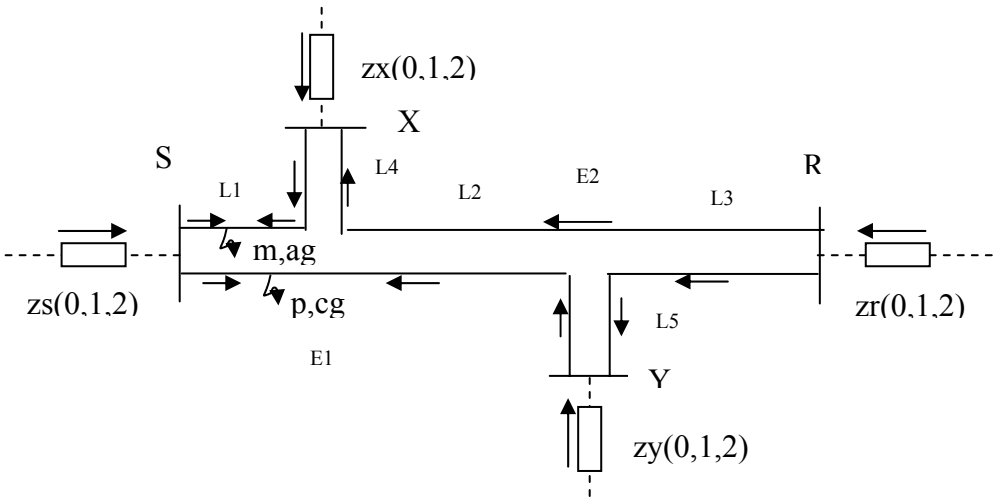
PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000, Sccx=5000, Scxr=5000, Scyy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0, Extr: Xs



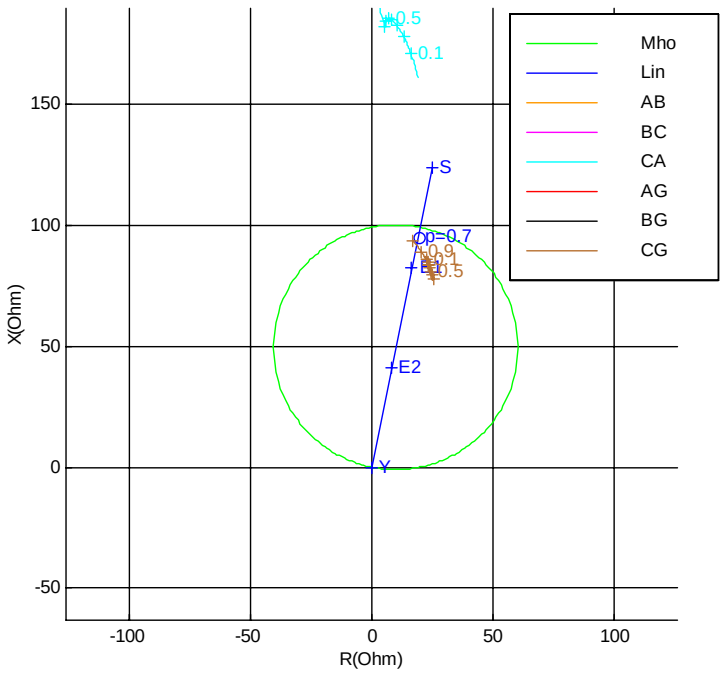
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	0.78	--	--

Programa PG54c
Caso Standard, Tramo T1, Falta ag-cg: Salida z04

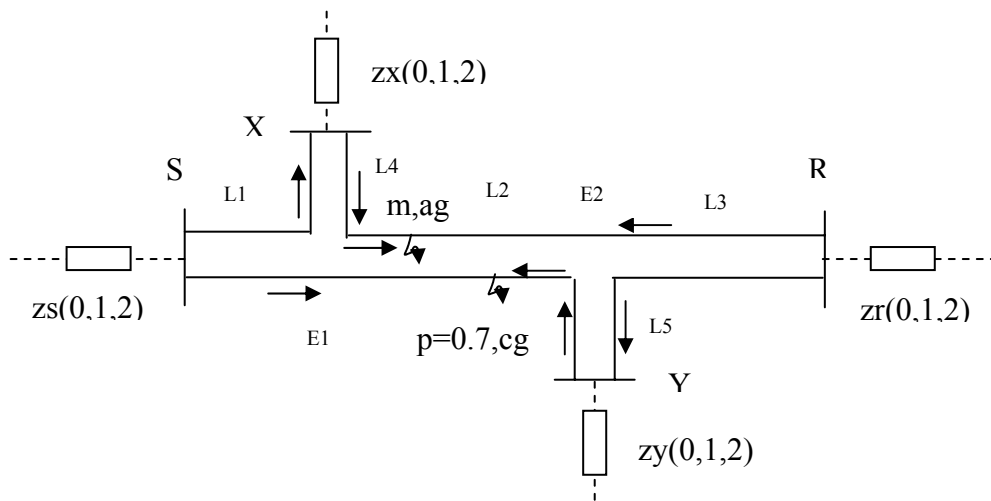
Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000, Sccx=5000, Scxr=5000, Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: SE1(SX), ag, Rfm=0, p=0.70, SE1(SY), cg, Rfp=0, Extr: Ys



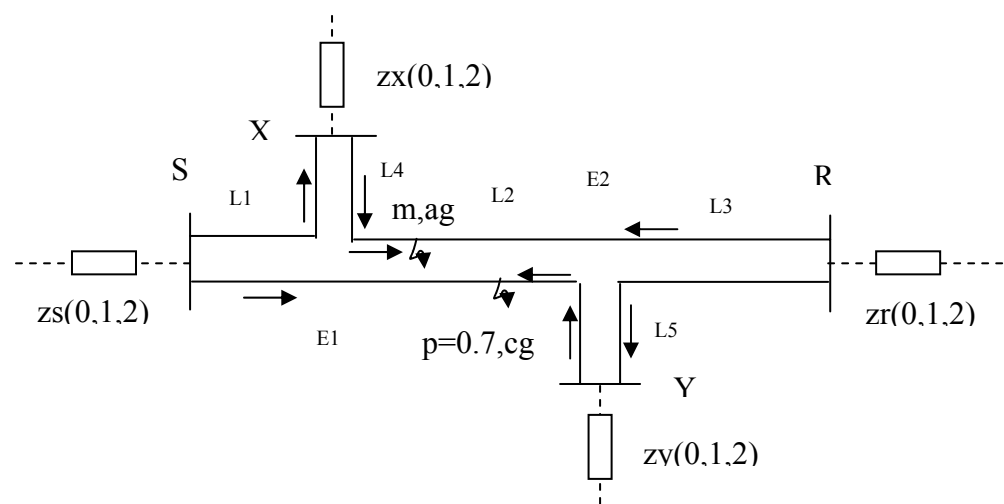
Esquema:



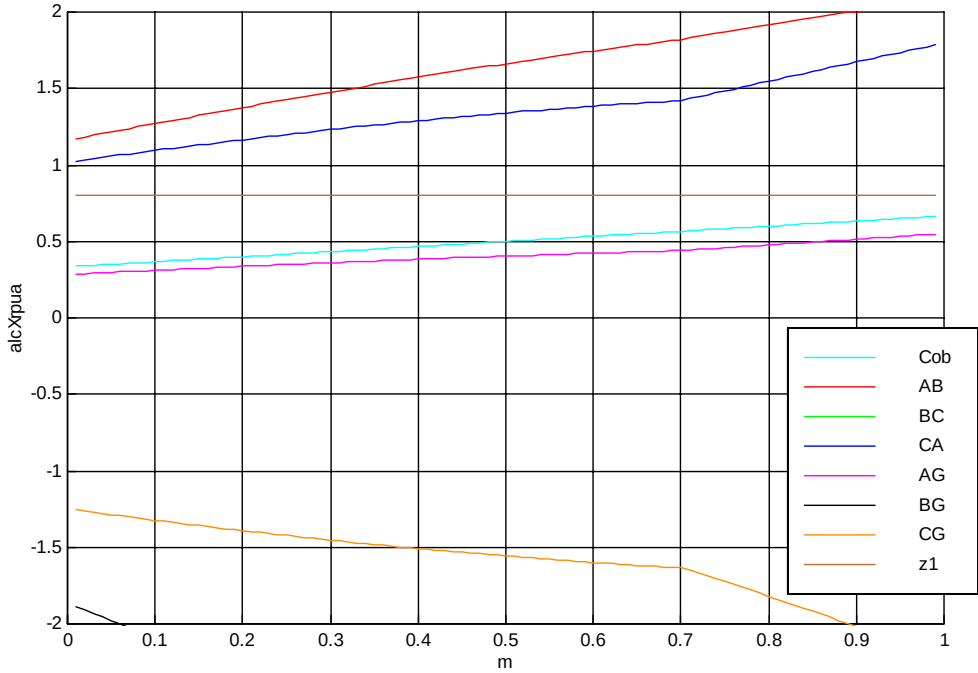
Programa	PG54c		
Entrada Standard	Un=220 kV, kE=1, L1=100 km, L2=100 km, L3=100 km, L4=100 km, L5=100 km, Sccs=5000 MVA, Sccx=5000 MVA, Sccr=5000 MVA, Sccy=5000 MVA, Kx0=1, Kr0=1, Ky0=1		
	Compensación 21= No		
Parámetro	$k0 = zs0/zr0 = 10$		
Falta Doble m,p	Falta m Tramo T2 Línea Sup	m	0 . . . 1 (Tramo)
		Tipo	ag
		Elemento	AG
		Rfm	0
		Rgm	--
	Falta p Tramo T2 Línea Inf.	p	0.7 (Tramo)
		Tipo	cg
		Elemento	AG
		Rfm	0
		Rgm	--
Salida 1	21 Todas las Unidades pua AB,BC,CA,AG,BG,CG	alcanceXrpua	f01
		alcanceRxpua	f02
		alcanceSypua	f03
		alcanceYspua	f04
Salida 2	67N	Xr	n01
		Rx	n02
		Sy	n03
		Ys	n04
Salida 3	21 R-X	Xr	z01
		Rx	z02
		Sy	z03
		Ys	z04

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: f01

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000 , Sccx=5000 , Sccr=5000
Sccy=5000 , Kx0=1.00 , Kr0=1.00 , Ky0=1.00 , k0=10.00 , m: E1E2(XR), ag, Rfm=0 , p=0.70, E1E2(SY), cg, Rfp=0

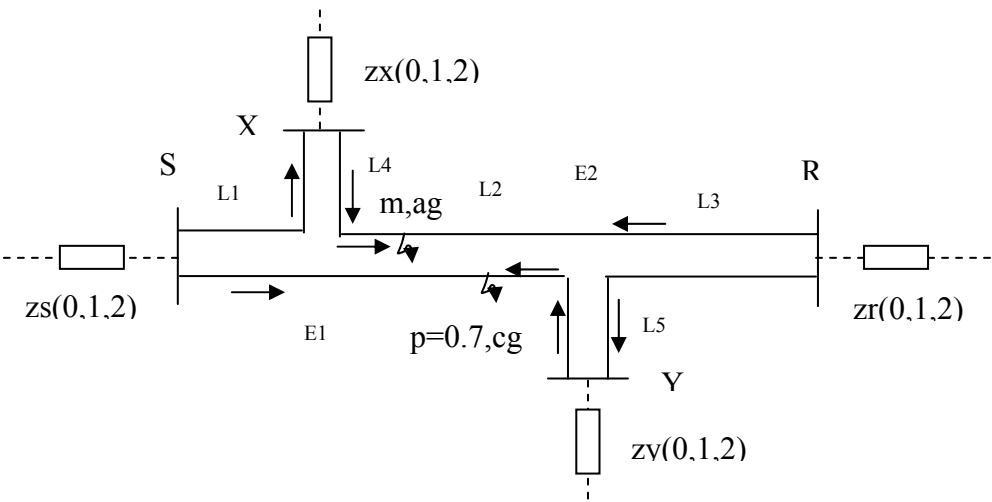


m(Tramo E1E2(XR)) ; p(Tramo E1E2(SY)) , p fijo

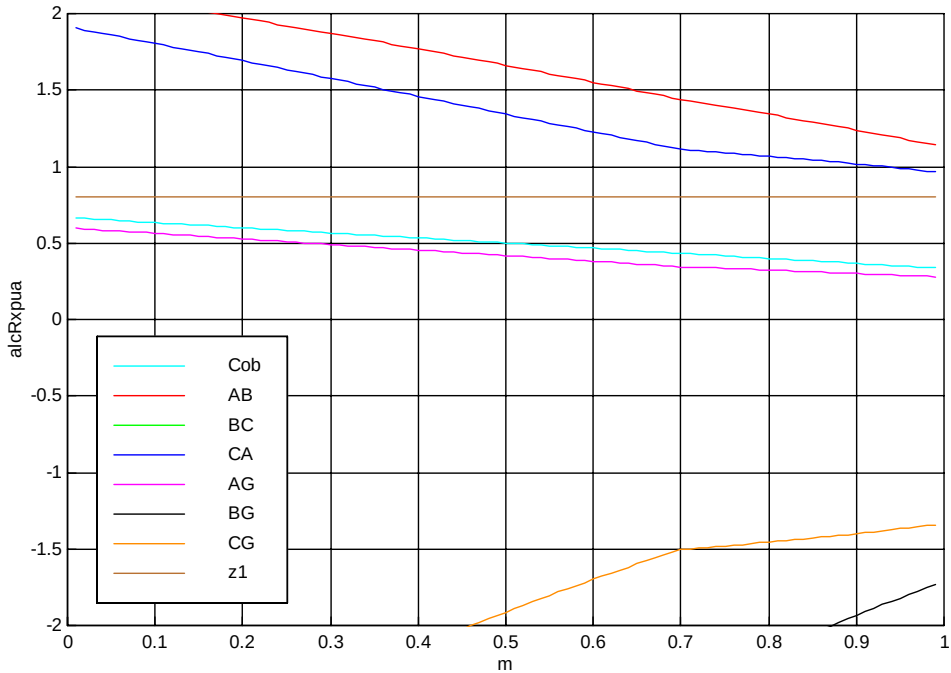
Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	--	--	--	>Tramo	--	--

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: f02

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000 , Sccx=5000 , Sccr=5000
Sccy=5000 , Kx0=1.00 , Kr0=1.00 , Ky0=1.00 , k0=10.00 , m: E1E2(XR), ag, Rfm=0 , p=0.70, E1E2(SY), cg, Rfp=0

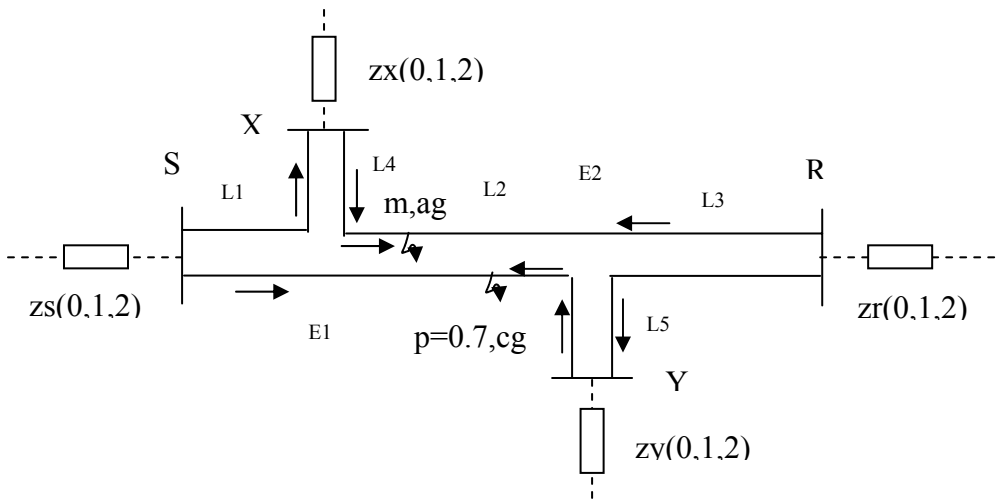


m(Tramo E1E2(XR)) ; p(Tramo E1E2(SY)) , p fijo

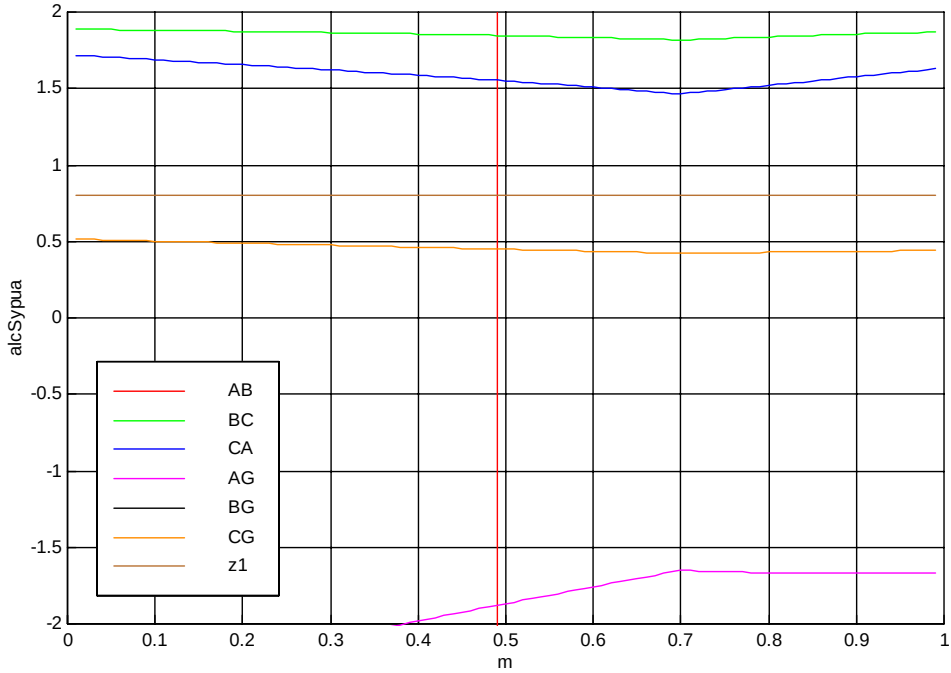
Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	>Tramo	--	--

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: f03

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000 , Sccx=5000 , Sccr=5000
Sccy=5000 , Kx0=1.00 , Kr0=1.00 , Ky0=1.00 , k0=10.00 , m: E1E2(XR), ag, Rfm=0 , p=0.70, E1E2(SY), cg, Rfp=0

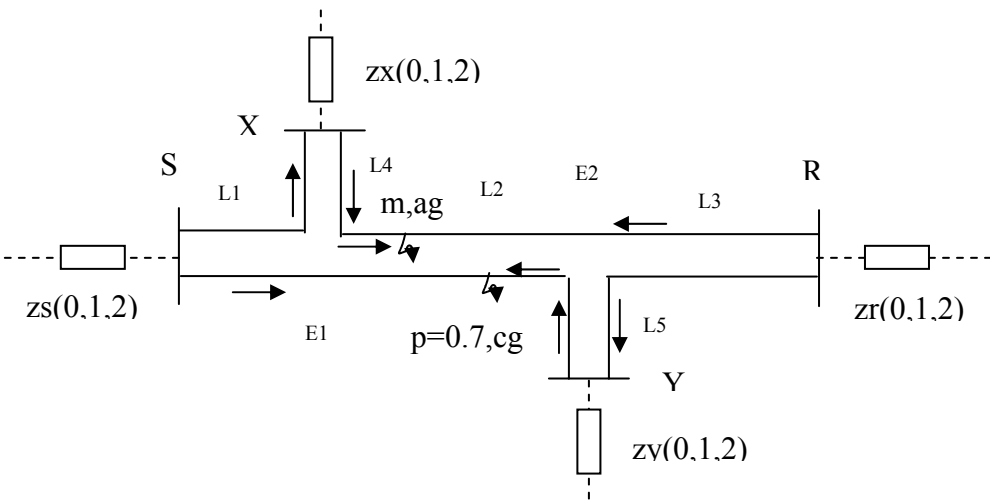


m(Tramo E1E2(XR)) ; p(Tramo E1E2(SY)) , p fijo

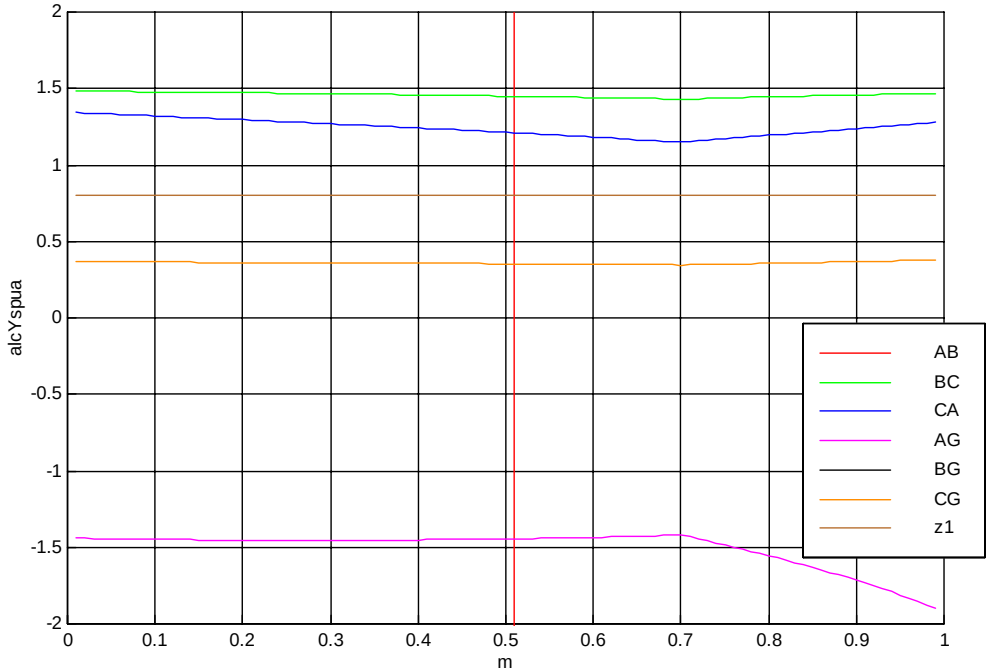
Unidad	AB	BC	CA	AG	BG	CG
Cobertura →	--	--	--	--	--	>Tramo

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: f04

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Sccs=5000, Sccx=5000, Sccr=5000
Sccy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: E1E2(XR), ag, Rfm=0, p=0.70, E1E2(SY), cg, Rfp=0



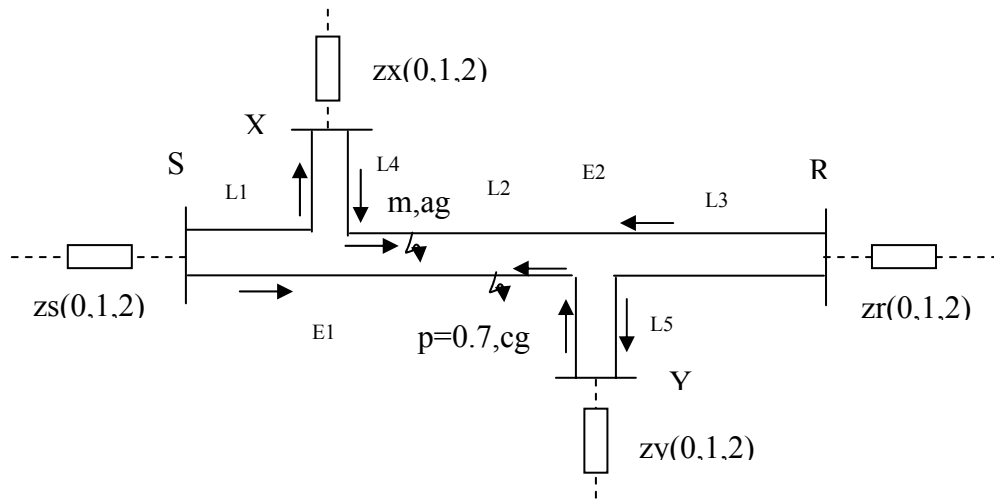
m(Tramo E1E2(XR)) ; p(Tramo E1E2(SY)) , p fijo

Unidad	AB	BC	CA	AG	BG	CG
Cobertura ←	--	--	--	--	--	>Tramo

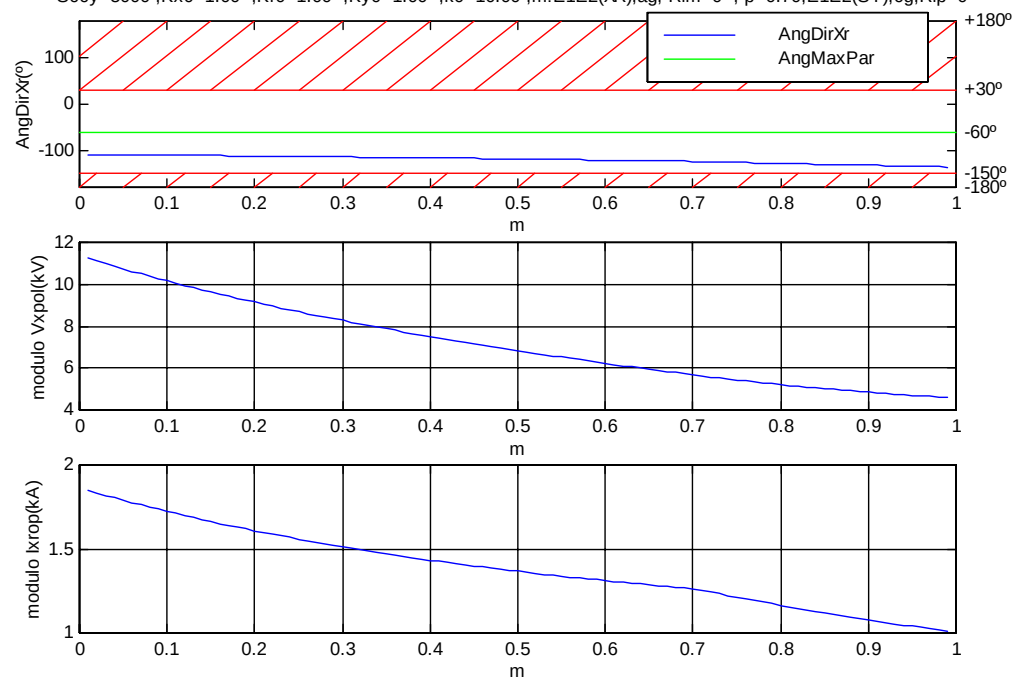
Programa PG54c

Caso Standard, Tramo T2, Falta ag-cg: Salida: n01

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $Scs=5000$, $Scx=5000$, $Scr=5000$, $Scyy=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:E1E2(XR), ag$, $Rfm=0$, $p=0.70$, $E1E2(SY), cg$, $Rfp=0$



$m(\text{Tramo } E1E2(XR))$; $p(\text{Tramo } E1E2(SY))$, p fijo

Direccionalidad: $0 < m < 1.0$

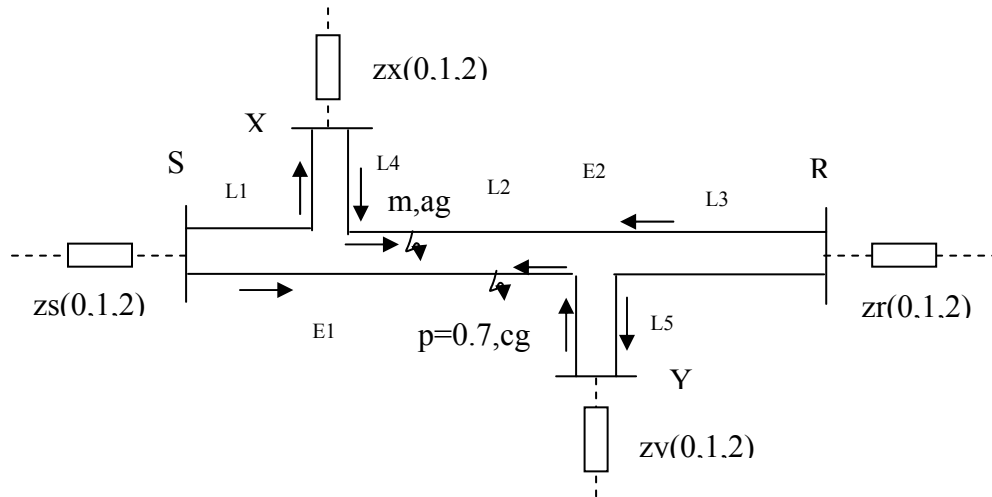
Sensibilidad de Tensión : decreciente (con m) ; cambio de pendiente en $m=0.7$

Sensibilidad de Corriente: decreciente (con m) ; cambio de pendiente en $m=0.7$

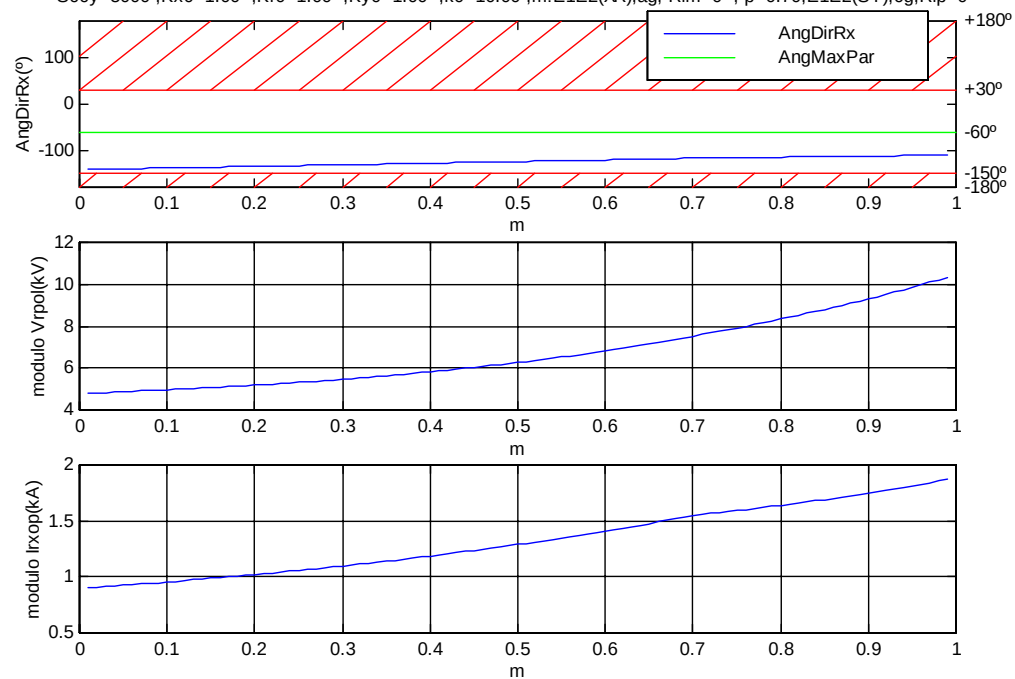
Programa PG54c

Caso Standard, Tramo T2, Falta ag-cg: Salida: n02

Esquema:



PG54c,67N,220kV,kE=1.00,L1=100km,L2=100km,L3=100km,L4=100km,L5=100km,Scxs=5000 ,Scxx=5000 ,Sccr=5000
Sccy=5000 ,Kx0=1.00 ,Kr0=1.00 ,Ky0=1.00 ,k0=10.00 ,m:E1E2(XR),ag, Rfm=0 , p=0.70,E1E2(SY),cg,Rfp=0


$$m(\text{Tramo E1E2(XR)}) \quad ; \quad p(\text{Tramo E1E2(SY)}) , p \text{ fijo}$$

Direccionalidad: $0 < 1 - m < 1.0$

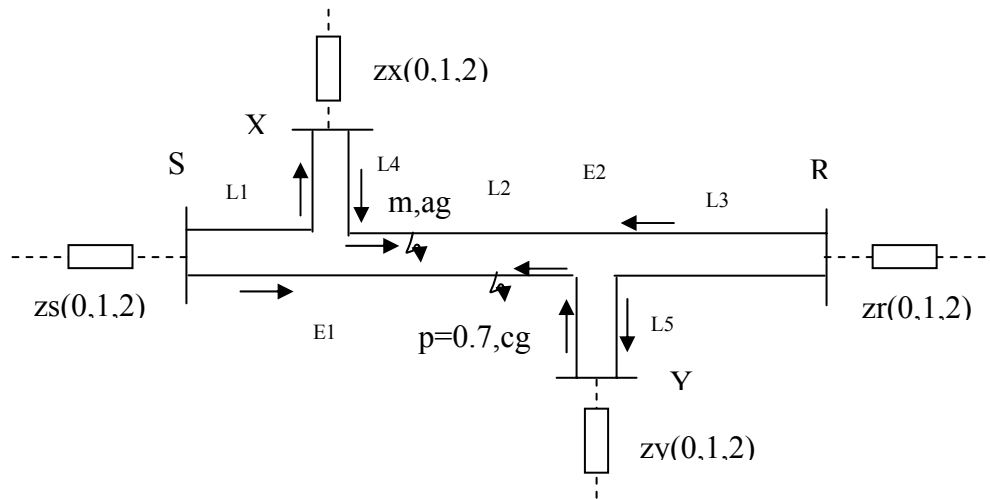
Sensibilidad de Tensión : decreciente (con 1-m) ; cambio de pendiente en 1-m=0.3

Sensibilidad de Corriente: decreciente (con $1-m$); cambio de pendiente en $1-m=0.3$

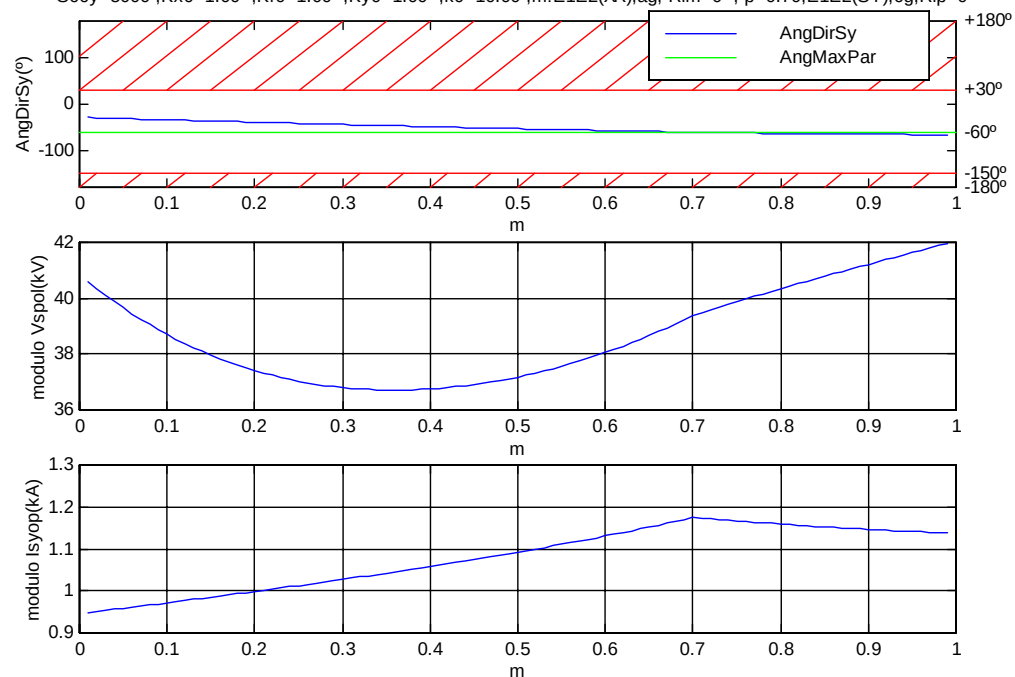
Programa PG54c

Caso Standard, Tramo T2, Falta ag-cg: Salida: n03

Esquema:



PG54c, 67N, 220kV, $kE=1.00$, $L1=100\text{km}$, $L2=100\text{km}$, $L3=100\text{km}$, $L4=100\text{km}$, $L5=100\text{km}$, $Scs=5000$, $Scx=5000$, $Scr=5000$, $Scy=5000$, $Kx0=1.00$, $Kr0=1.00$, $Ky0=1.00$, $k0=10.00$, $m:E1E2(XR), ag$, $Rfm=0$, $p=0.70$, $E1E2(SY), cg$, $Rfp=0$



$m(\text{Tramo } E1E2(XR))$; $p(\text{Tramo } E1E2(SY))$, p fijo

Direccionalidad: $0 < m < 1.0$

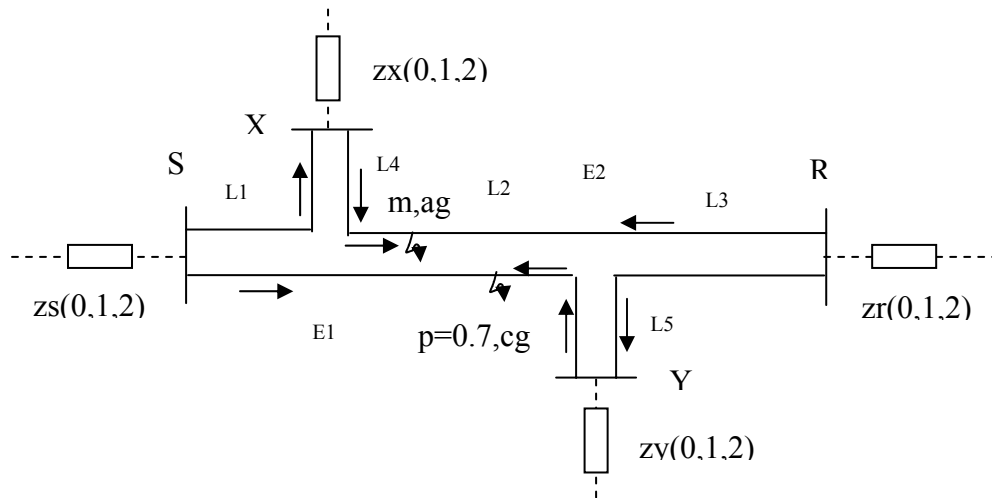
Sensibilidad de Tensión : decreciente-creciente (con m) ; cambio de pendiente en $m=0.7$

Sensibilidad de Corriente: creciente (con m) ; $m > 0.7$ decreciente

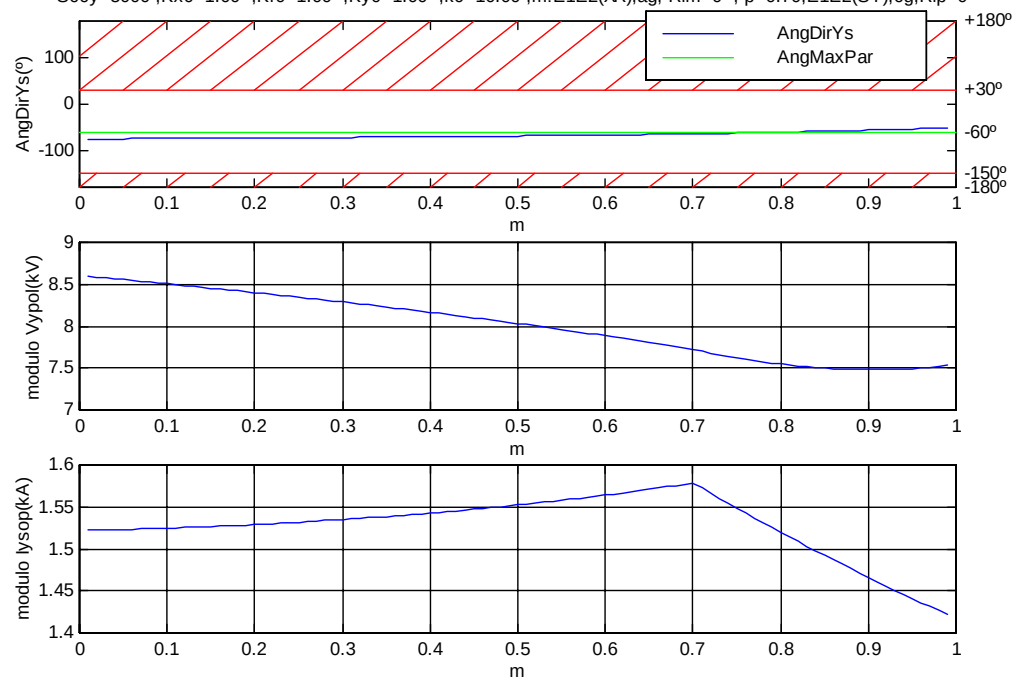
Programa PG54c

Caso Standard, Tramo T2, Falta ag-cg: Salida: n04

Esquema:



PG54c, 67N, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000, Scxx=5000, Scxr=5000
 Scyy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: E1E2(XR), ag, Rfm=0, p=0.70, E1E2(SY), cg, Rfp=0



m(Tramo E1E2(XR)) ; p(Tramo E1E2(SY)) , p fijo

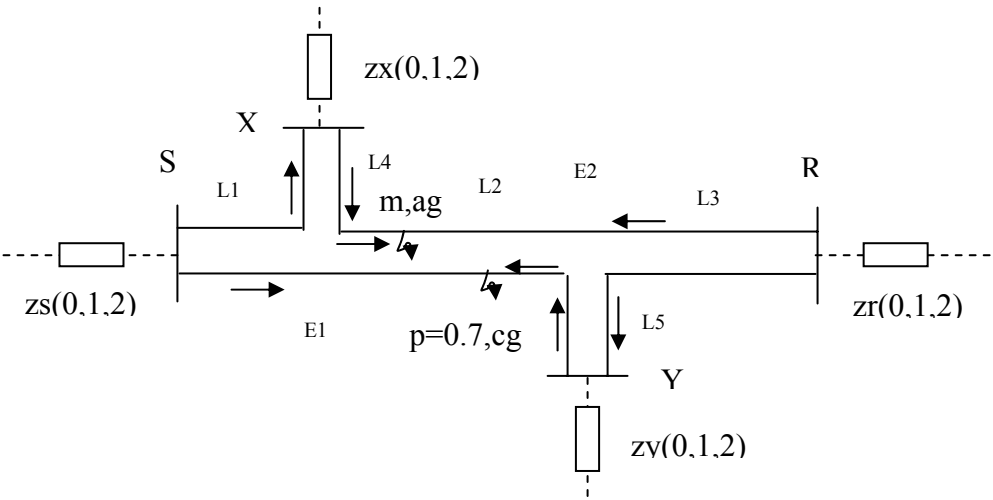
Direccionalidad: $0 < 1-m < 1.0$

Sensibilidad de Tensión : creciente (con $1-m$) ; cambio de pendiente en $1-m=0.3$

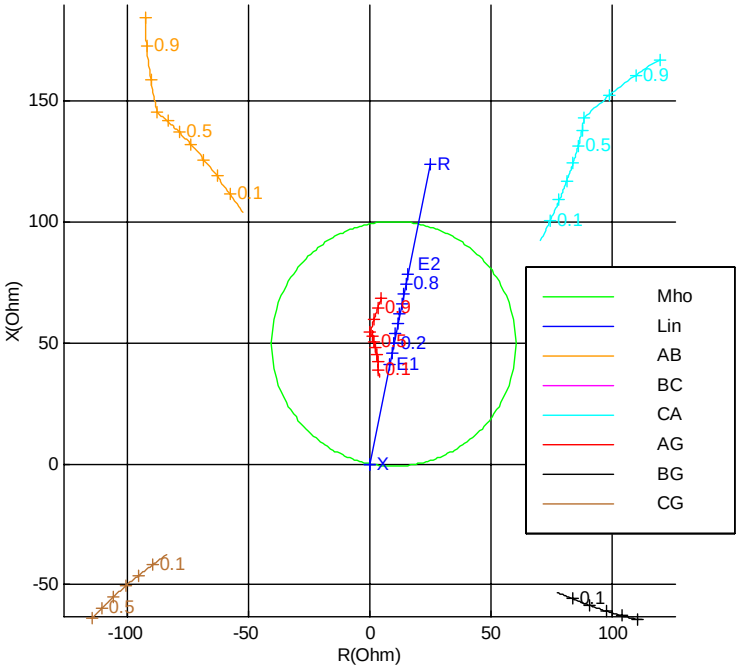
Sensibilidad de Corriente: $0 < 1-m < 0.3$ creciente ; $1-m > 0.3$ decreciente

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: z01

Esquema:



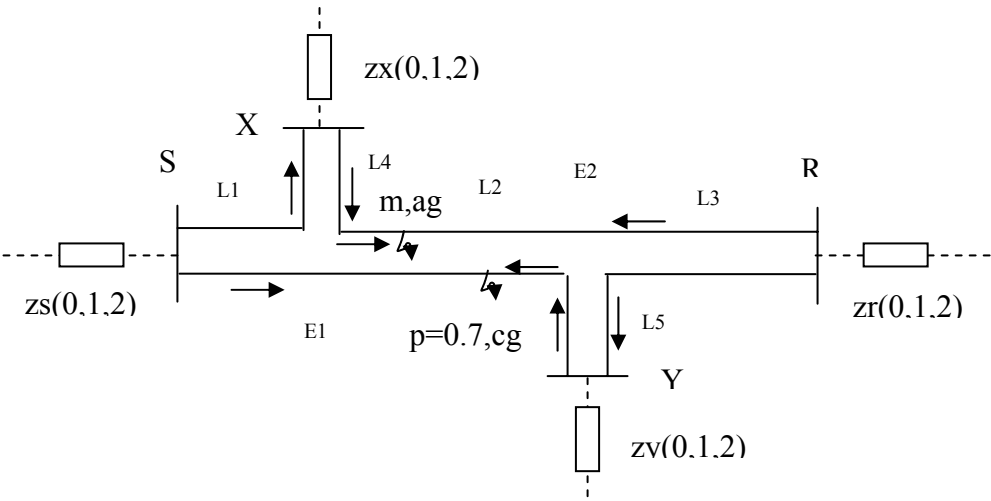
PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000, Sccx=5000, Scrr=5000
Scyy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: E1E2(XR), ag, Rfm=0, p=0.70, E1E2(SY), cg, Rfp=0, Extr: Xr



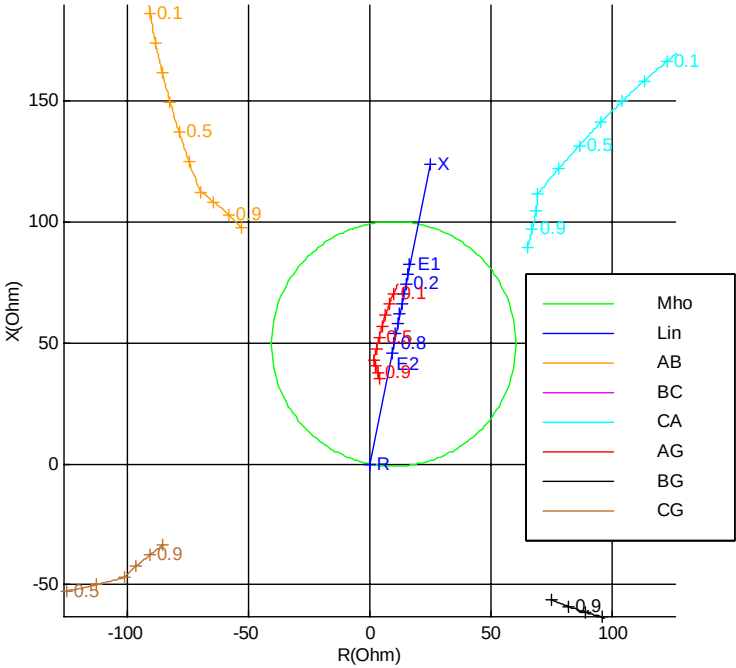
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	>Tramo XE2	--	--

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: z02

Esquema:



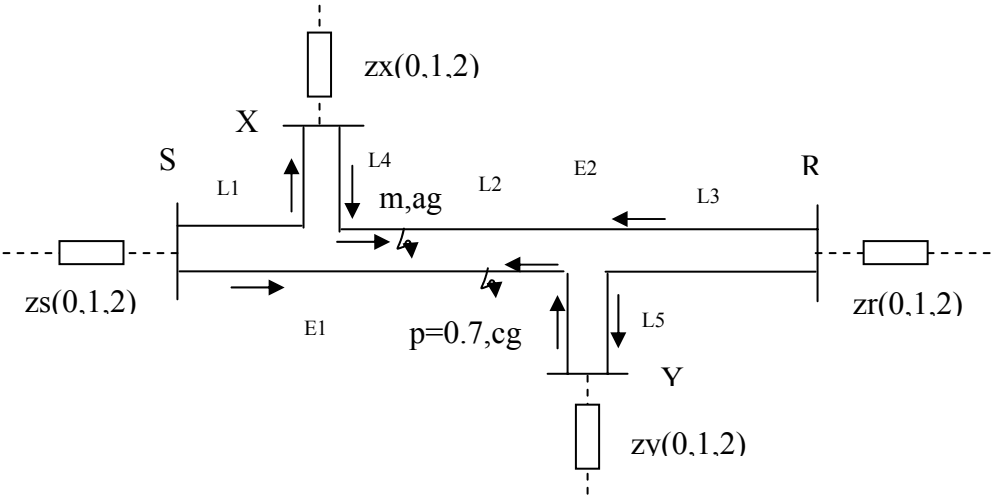
PG54c,21nc,220kV,kE=1.00,L1=100km,L2=100km,L3=100km,L4=100km,L5=100km,Sccs=5000 ,Sccx=5000 ,Sccr=5000
Sccy=5000 ,Kx0=1.00 ,Kr0=1.00 ,Ky0=1.00 ,k0=10.00 ,m: E1E2(XR),ag,Rfm=0 , p=0.70,E1E2(SY),cg,Rfp=0 ,Extr: Rx



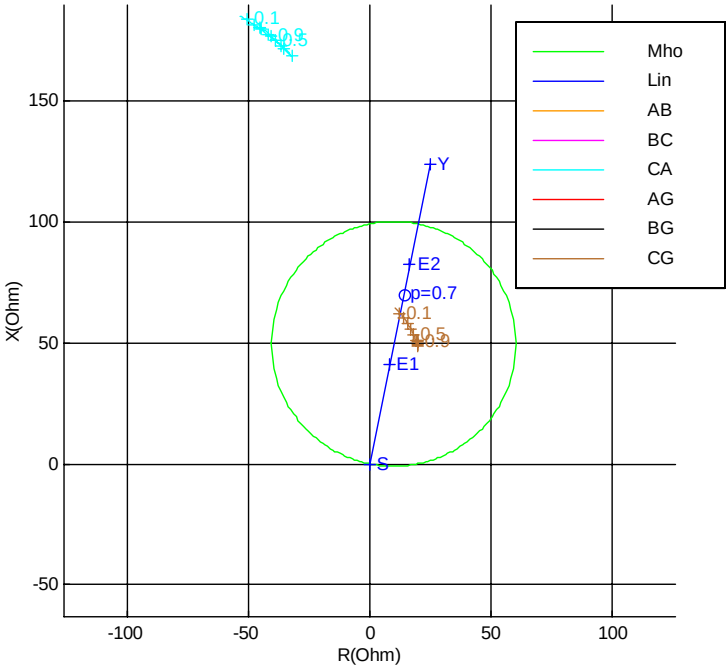
Unidad	AB	BC	CA	AG	BG	CG
Cobertura	--	--	--	>Tramo RE1	--	--

Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: z03

Esquema:

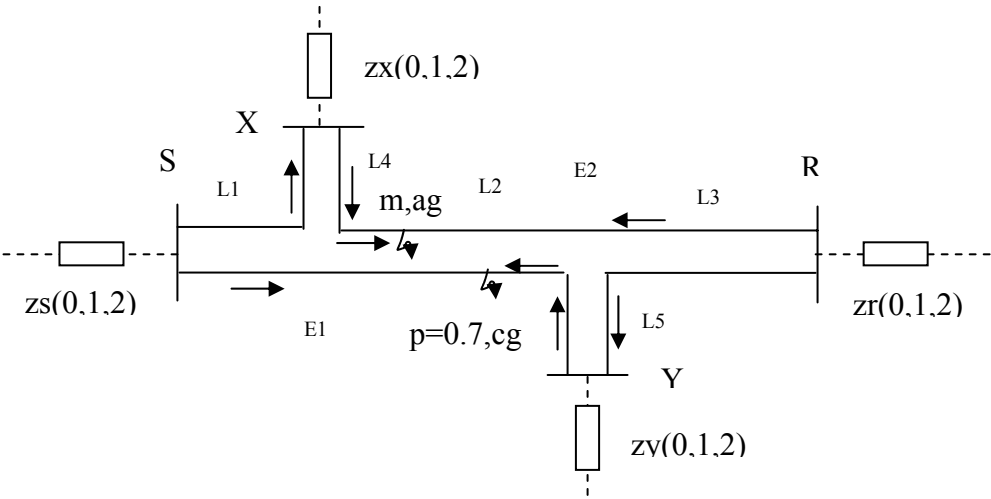


PG54c,21nc,220kV,kE=1.00,L1=100km,L2=100km,L3=100km,L4=100km,L5=100km,Sccs=5000 ,Sccx=5000 ,Sccr=5000
Sccy=5000 ,Kx0=1.00 ,Kr0=1.00 ,Ky0=1.00 ,k0=10.00 ,m: E1E2(XR),ag,Rfm=0 , p=0.70,E1E2(SY),cg,Rfp=0 ,Extr: Sy



Programa PG54c
Caso Standard, Tramo T2, Falta ag-cg: Salida: z04

Esquema:



PG54c, 21nc, 220kV, kE=1.00, L1=100km, L2=100km, L3=100km, L4=100km, L5=100km, Scxs=5000, Sccx=5000, Scrr=5000
Scyy=5000, Kx0=1.00, Kr0=1.00, Ky0=1.00, k0=10.00, m: E1E2(XR), ag, Rfm=0, p=0.70, E1E2(SY), cg, Rfp=0, Extr: Ys

