

附錄 3：聯立方程式之求解

```

option ps=500;
dm 'log;clear;output;clear;';

proc model DATA=csereco ;

ENDOGENOUS
  A CC DB DF DP R RK T W Y
  YD YF C DK EX IM L I IE KF
  B BF DE DEE DGK DI DIF DII DKF DM
  DMM DPP DRR DRU EKFP F G GC GN GW
  K MP P PT RIP TB U WP DKD PY;

EXOGENOUS
  AA BB D DD DEEE DGNK DGWK DPPE E GK
  GNC GS GWC IU M PF Q RR RU SD
  T1 T2 T3 X YU ;

IE= (-K +641.319+6490.18 * I+1659.87 * RU+0.620844 * Y+0.46274 * A
      +17.3978 * E+219.369 * DEEE+578.671 * DPPE)/(1569.39);
I = (-BP+368.852+32.1693 * IE-259.828 * RU+0.621876 * Y-
      0.236154 * A+7.1215 * E-206.972 * DEEE+384.731 * DPPE)
      /(1915.81);
KF = (546.734+616.934 * I+79.8222 * IE+457.275 * RU-0.182008 * Y+0.
      072129 * A-18.182 * E-330.94 * DEEE-890.925 * DPPE)* P/E;
A=K+(E * KF+M+B)/P;
CC=M-E * F;
DB= P * G+I * B+IU * E * D+E * DF-P * T-DM-IU * E * F-GS;
DF=(P * EX-P * IM+E * IU * F-E * DKF+E * IU * KF-E * IU * D+E
    * Q)/E;
DP=(0.14703-7.9514 * U+DPPE)* LAG(P);
R=I-DPPE;
RK=AA * BB *(L ** X)*(K ** (BB-1))*(GK ** RR);
T=(T1 *(P * Y+I * B+IU * E * KF)+T2 *(P * IM)+T3 *(P * C))/P;
W=(AA * X *(L ** (X-1))*(K ** BB)*(GK ** RR))* P;
Y=C+DK+GNC+GWC+DGNK+DGWK+EX-IM+DKD+SD;

```

```

YD=Y-T+(I * B+IU * E * KF)/P-(EKFP+MP+BP)* DPP-(EKFP *
  DRR)-(BP * DII)-(EKFP * DEE)+GWC ;
YF=AA *(L ** X)*(K ** BB)*(GK ** RR) ;
B=LAG(B)+DB ;
BP=B/P ;
DE=DIF(E) ;
DEE=DE/LAG(E) ;
DGK=DGWK=DGNK ;
DI=DIF(I) ;
DIF=I-IU ;
DII=DI/LAG(I) ;
DKF=DIF(KF) ;
DKD=DD * LAG(K) ;
DM=DIF(M) ;
DMM=DM/LAG(M) ;
DPP=DP/LAG(P) ;
DRR=DRU/LAG(RU) ;
DRU=DIF(RU) ;
EKFP=E * KF/P ;
F=LAG(F)+DF ;
G=GN+ GW ;
GC=GNC+ GWC ;
GN=DGNK+ GNC ;
GW=DGWK+ GWC ;
K=LAG(K)+DK ;
MP=M/P ;
P=LAG(P)+DP ;
PT=P * T ;
RIP=RK-IE+DPPE ;
TB=EX-IM ;
U=1-(Y/YF) ;
WP=W/P ;
PY=P * Y ;

```

```

INCLUDE DK_r1 C_mod IM_r2 EX_r2 L_r1 ;

```

id year;

```
range year 1971 1993;
```

```
SOLVE
```

```
  A B BP C CC DB DE DEE DF DGK
```

```
  DI DIF DII DK DKD DKF DM DMM DP DPP
```

```
  DRR DRU EKFP EX F G GC GN GW I
```

```
  IE IM K KF L MP P PT PY R
```

```
  RIP RK T TB U W WP Y YD YF
```

```
  / solveprint converge=0.001 maxiter=200 maxsubiter=50 theil  
out=predeco outpredict;
```

```
run;
```

```
quit;
```