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(MPO, 2005)

(2003) Mellor

(2003) Mahmudi & Banouei

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(MPO, 2005)

Datt &
Bourguignon & Morrisson (1998) Ravallion
(1996) Thorbecke & Jung (1998)

(2000) Nokkala .

(2004) Salami

Banouei

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(Round & Pyatt, 1979)

(Pyatt, 1988)

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SAM

Khan (2000) Nokkala (2002) Rocchi et al.
Thorbecke & (1996) Pradhan & Sahoo (1999)
Thorbeck & Lewis (1994) Hassan (1996) Jung
(2004) Salami (1985) Round & Pyatt (1992)
(2005) Banouei (2003) Mahmudi & Banouei

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SAM

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		Y'_x		Y'_n

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$Y_x = t + l$ (Y_n .)

N N L (x) (n) ()

A_{nn} A_{nn} :

: n A_{nn} ($Y_n = n + x$)

$n = A_{nn} Y_n$ (



$$Y_n = A_{nn} Y_n + x \Rightarrow Y_n = (I - A_n)^{-1} x \quad (1)$$

$$M_a = (I - A_n)^{-1} \Rightarrow Y_n = M_a x \quad (2)$$

SAM

$$Y_i = \sum_{j=1}^n m_{ij} x_j \quad i, j = 1, 2, \dots, n \quad (3)$$

$$\frac{\partial Y_i}{\partial x_j} = m_{ij} \quad m_{ij} \in M_a \quad (4)$$

M_a

(Defourny & Thorbecke, 1984)

$$I_{(i \rightarrow j)}^D = a_{ji} \quad (5)$$

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- 3. Influence
 - 4. Arc
 - 5. Pole
 - 6. Path
 - 7. Elementary Path
 - 8. Circuit
 - 9. Network
 - 10. Direct Effect
 - 11. Total Effect
 - 12. Global Effect

(1979) Pyatt & Round

Defourny (1984) & Thorbecke

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- 1. Block-Decomposition of Multiplier Matrix
 - 2. Structural Path Analysis

$$I_{(i \rightarrow j)}^D = \sum_{p=1}^n I_{(i \rightarrow j)}^D M_p$$
 (Defourny & Thorbecke, 1984)

$$I_{(i \rightarrow j)}^G = m_{ij} = \sum_{p=1}^n I_{(i \rightarrow j)}^T = \sum_{p=1}^n I_{(i \rightarrow j)}^D M_p$$
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$$m_{ij} \in M_a$$

A_{mn}

Defourny &

($I - A_{mn}$)

(1984) Thorbecke

($I - A_{mn}$)

(1984) Defourny & Thorbecke .

$j \rightarrow i$

$$I_{(i \rightarrow j)}^T = I_{(i \rightarrow j)}^D M_p$$
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$I_{(i \rightarrow j)}^T$

$j \rightarrow i$

$j \rightarrow i$

Defourny & Thorbecke

Roland-Holst & Sancho (2004) Santos (1984)

(1995)

(Defourny & Thorbecke, 1984)

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$j \rightarrow i$

M_a

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1. Matrix of Direct Influence
 2. Path Multiplier

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(CPC V.1.0)

ISIC, Rev.3)

حسابها	حساب برابریه				حساب جاری			
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جمع درآمدها	درآمد کلی	درآمد کلی	درآمد کلی	درآمد کلی	درآمد کلی	درآمد کلی	درآمد کلی	جمع درآمدها
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۲۴۳۶۵۲۴								کاربرها
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منابع: داده‌های تحقیق

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(SCIa & SCIB, 2002 & 2005)

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(SCI, 2003)

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(SCI, 2002)

(CBI, 2002)

(SEO, 2002)

(1979) Pyatt & Round

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(2004) Salami

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