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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

(2005)

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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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(i) x X

$Y_x = t + l$ () Y_n ()

N N L (x) (n) ()

A_{mn} A_{mn} :

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

i

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

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

SAM

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

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

$$M_a = (m_{ij}) \quad (5)$$

(M_a)

j

i

j

i

SAM

(1979) Pyatt & Round

(Defourny & Thorbecke, 1984)

$$I_{(i \rightarrow j)}^D = a_{ji} \quad (6)$$

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

Defourny

(1984) & Thorbecke

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

(Defourny & Thorbecke, 1984)

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

$$m_{ij} \in M_a$$

A_{mn}

Defourny &

$(I - A_{mn})$

Defourny & Thorbecke

Roland-Holst & Sancho (2004) Santos (1984) (1995)

$I_{(i \rightarrow j)}^D$
 $a_{ji} (i, j)$
 (A_n)
 A_n
 SAM

(1984) Defourny & Thorbecke .

$j \rightarrow i$

$$I_{(i \rightarrow j)}^T = I_{(i \rightarrow j)}^D M_p \quad (2)$$

$j \rightarrow i$

$j \rightarrow i$

(Defourny & Thorbecke, 1984)

n

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)

(<http://unstats.un.org/unsd/cr/registry>)

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(SCIa & SCIB, 2002 & 2005)

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(SCI, 2006)

(SCI, 2006)

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(2004) Salami

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