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- III.** , , 1960
- IV.** , , 1972
- V.** , , 1867
- VI.** , - , 1936
- VII.** , 1888. ;
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(1879 – 1884):

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[7] Rowntree

Graham Wallas,

[. § 11].

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[9] 1895 . , 1915 .- 1936 .
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Urban Dynamics (1969).

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4. I. 1662 .
- 12, 2, 14:13.
5. Freudenthal (1961, p. xi)
- 6.
7. Bäderker 1832 .
Whitaker – 1868 .

8. Nordenmark (1929) 1749 .
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9. ,
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15. , . (2003b, . 33 – 36).
 (2013, . 16, . 9)
16. (Quetelet 1846, . 169):
17. ,
 , 1906 – 1983, , ,
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1888 – 1889 .

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Souls, - , 1440 1460 . , All),
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Evelyn,
Dutot (1738).
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$$I_1 = 1/0. \quad (1)$$

Dutot
Dupré de Saint Maur (1764),
Dutot,

8. Gian Rinaldo Carli (1720 – 1795),

(1746)

[?], [?]

$$I_2 = \frac{1}{n} \sum (p_1/p_0). \quad (2)$$

$n -$ (= 3?).

9. , Dutot

(1913) XVIII . W. C. Fisher []

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[I 1066 .]

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[1050(50)1650, 1675, 1700, 1720, 1740(10)1790, 1795 1800 . 26 144, 238 562 1600, 1700 1800 .]

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16. Young (1812, .67) , []

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17. (1812)

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22 1/2%, . .

(1812, . 134)

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20. , : ;

21. 1831], (Lowe 1822)

22. .9

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(!) , , ,
(74 33 1/3%) (4 1/2 11 2/3%),
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$$I_3 = \sum (p_1/q_0) \div \sum (p_0/q_0). \quad (3)$$

25.

(3)?

$$I_4 = \sum (p_0/q) \div \sum (p_1/q), \quad (4)$$

q 0 1. , () , .

26.

Scrope, (1833a). G. Poulett

.408:

[...], 1819 1830 .
(35%)
, [], ()
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1819 1830
(1833b)

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1856 .,

(Cross 1837),

Aberdeen Herald.

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34. 1, 2, 3 6 ; 7 -
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35. 5
(1864; 1871); Drobisch (1871); Paasche (1874; 1878⁷).

(3).

$$I_5 = \sum(p_1/q_1) \div \sum(p_0/q_1). \quad (5)$$

36. (3) (5)

$$I_T [\quad],$$

Irwing Fisher (1927)

$$I_3 \quad I_5$$

$$I_6 = \sqrt{\frac{\sum(p_1q_0) \sum(p_1q_1)}{\sum(p_0q_0) \sum(p_0q_1)}}. \quad (6)$$

$$I_7 = \frac{\sum[p_1(q_1 + q_0)]}{\sum[p_0(q_1 + q_0)]}. \quad (7)$$

37.

38.

(§ 23),

Palgrave (1886)

$$I_8 = \frac{\sum p_1 q_1 (p_1/p_0)}{\sum (p_1 q_1)} \quad (8)$$

39. 1900 .

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Chambers Enc.

Frisch (1939).

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3. 1785 . (1751 – 1801)
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(1885 – 1898).

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[49, . 190; 50, . 101; 56],

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[?] [32, 42, . 657].

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Funkhauser [16] [17]
J. Lond. Stat. Soc. 1841 .
(1837 – 1887 .)

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P. A. Dufau 1840 . 1805 . Jacques Peuchet
Carl Knies,

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Funkhauser

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Funkhauser & Walker [17]

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1780 ., 21 ,

Boulton & Watts (

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[1; 10, . 15, . 1300 – 1301; 42, . 3, . 116 –
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Tomahawk, .
Anticipation,
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Galignani's Messenger. 1806 .

Edinburgh Review

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Gentlemen's Magazine
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[51, . 15 – 16, 57, 298].

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Merchant's Magazine (7, 8 9).

[15, . 690]

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3. ,1792 – 1871

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[32, .34, .411]. 1831 .
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75 – 77].

(1832; 1833, , 1835).

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(1826);
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(,) *Annual Reports* . 1838

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. 133], [12, . 6,

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[41, . 30 – 31],
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[40, . 25 – 26; 22, . 65 – 70].

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[51, . 115 – 116]

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1840 – 1882 . 1847 .,
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60 – 61, 95 – 96].

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[40, . 173,177; 14].

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[10, . 6, . 1090 –

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Medical Annual,

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British Annals of Medicine.

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[49, .

76; 50, . 42].

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[51, . 69]:

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 Fothergillian
 Pembroke 1837 .
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 (Croonian 1861 ., Lumleian 1868 .
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 Swiney¹⁵.
 [10, . 8, . 835 - 836; 24].

(1884)

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[32, . 32, . 365 – 366, 373] :

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Harrowly,

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[42, . 3, . 17 – 18].

[48, . 34, . xvii – xix].

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Economist,

1882 . Wilson, Bagehot Palgrave.

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Morning Chronicle [48, . 34, . xvii – xix].

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Economist, Fortnightly Review, Pall Mall Gazette, Statist Times [33, . 367 – 368; 49, c. 176; 50, c. 93].

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Agra Bank.

[39]. 1851 .

Globe Insurance

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Glynn, Mills & Co.,

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[10, . 14, . 352 – 354; 12, . 11, . 368 – 369]. 1861

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[32, . 69, . 540].

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[51, . 115]. ,

H. D. Pochin

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[33, . 35]. , 1420

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[30, . 157 – 158] :

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.8 1861 . :

[30, .162].

28 1862 . [30, .173]:

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[9, . 32, . 157 – 159].

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1845 – 1861 1825 – 1861 . ;
1806 – 1860 . ; 1845 –

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¹⁸ [29, . 2 – 11].

[35, . 523 – 524; 53]

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[28].

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. 203 – 204].

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ratio chart.

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[35, . 525 – 526; 53]

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[9 (1887), . 247 – 301;
(1888), . 181 – 232; (1889), . 133 – 164; (1890), . 485 – 488].

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Eisenhart (1964)².

y_i

$$y_i = + x_i, i = 1; 2, \dots, n. \tag{1}$$

$\hat{}$,

$$y_i = \hat{} - \hat{x}_i = v_i,$$

$v_i -$

$$v_i = 0, \quad v_i = \min. \tag{2a, b}$$

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. Eisenhart (1961).

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$$r = (1 - r^2) / N. \tag{1}$$

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 n ($,$ $]$
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51
5 [, 35] .

$1/n,$

12 .

$r = n,$
 $f_n(r,)$
 $r.$

13 .

$1/n.$

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modal estimate,

Metron 1921 .

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1915

(bond house), 1915 – 1919 .

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1925 .

Experiments (.)

Design of
1935

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(excepting as the value of α may be specified by the hypothesis under test, α).

$$z = 1/\text{thr}, \quad \alpha = 1/\text{th}$$

[] z $1/n$ r z

1928

, 1928 .
 t , 1931 .
 [11] , - 14
 , (,
), , modal expansions,
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Irwin (1978) E. S. Pearson (1990).

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(Kendall & Doig 1968).

8. . . .

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10. . . .
(. . .) (2013, . . . 10 . . .)

. 7).
11. . . . (1922, . . .)

. 259).
12. . . . (. . .)

$$f_n(r,)dr = \frac{n-1}{\sqrt{2}} \frac{\Gamma(n)}{\Gamma(n+1/2)} (1-2)^{n/2} (1-r^2)^{(n-3)/2} (1-r)^{-n+1/2} F\left(\frac{1}{2}, \frac{1}{2}, n+1/2, \frac{1+r}{2}\right) dr.$$

(1 + r)/2.
1933 .

- f

 $1/n$,

 n

 $1/2$

1917
- 13.**

14.
- . . . (1922),

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