

...

- I.** , , 1809
- II.** , – , 1950
- III.** „ , 2016.
- IV.** , , 1959
- V.** , , 1990
- VI.** ,
- VII.** , , 1961
- VIII.** , , 1995
- I** , , 1978
- , , 2019
- I.** , : , 1961/1992
- II.** ,

oscar.sheynin@gmail.com

S, G, i:

i

www.sheynin.de.

Google,

Oscar Sheynin.

[i]

.2

XIX

.16?

I

[ii]

Lumiste (1997)

[iii]

(1995; 1997; 2002),

1930 – 1931

(2007).

[viii].

?

1997),

(

§ 9.1

:

2006,

www.sheynin.de
66).

Google, Oscar Sheynin, Home,

(2002).

(1995, . 58):

1968 .

[v]

50

60?

1986

1962 – 1986

(1949 – 1991),

[vi]

9, 2005,

2016 . (S, G, 78).

[vii]

[v, . 1] [viii,

. 11],

(1954).

[vi]

?

[v].

, (1915).
[viii] . , ,
 . , ,
[i]) , , (,
 , , ,
 . , ,
 .
 ; , 1989 – 1995
 .
 , -
 (1893 – 1936) -
 , .

I

.

, 1809. :

., 1963, .45 – 61

1.

; []

[]

(, .22 – 24).

(scientia);

(cognitio). (§ 1, c. 28).

()

(individualitas) (§ 2, .29).

(§ 2),

(§ 11, .32).

(§ 12, .32).

(§ 13, .32).

(§ 16, .33).

(§ 18, .35).

1)

; 2)

; 3)

(§ 19, .35 – 36).

4,
(§ 20, .36 – 37).

(§ 21, .37)⁵.
(§ 22,

6,
? (§ 24, .38).

(§ 25, .38).

(§ 26, .39).

1)
; 2)
(§ 27, .39).

40).

(§ 28, . 39 –

7.

(§ 36, . 45).

, . 27 37.

[]

: 1)

(staats-kunst)

. 2)

. 3)

(staats-kunde)

(
Geschichte) ,

, 4)

, stillstehende staats-

(§ 37, . 45 – 47).

1)

8. 2)

⁹ (§ 39, . 47 – 48).

1)

10

()

11

(§ 42, . 50 – 51).

2)

(§ 25).

(§ 42)

(§ 20).

([])

¹² (§ 43, . 51 – 52).

3)

13

(§ 44, . 52 – 53).

4)

53).

(§ 45, .

5)

(§ 46, . 53 – 54).

6)

[] (cursum politicum),

(§ 47, . 54).

(§ 48, . 54 – 55).

(§ 49, . 55).

(§ 50, . 55 – 56).

(§ 51, . 56 – 57).

: **I** ; **II**
(§ 53, . 57 – 58).

- I)
 1) ; 2)
 3)

(§ 54, . 58 – 59).

(aut dominus, aut imperant).

1)

. 2)

: 2)

: 1)

; 2)

(§ 55, . 59 – 60).

(§ 56, . 60 – 61).

1)

; 2)

(§ 58, . 62 – 63).

15

(§ 59, . 63 – 64).

: 1)

. 2)

. 3)

(codex),

(§ 60, . 64 – 65).

16

. 65 – 66).

(imperant)

(§ 61,

17

((§ 62, . 67 – 68).

I.

I.

- 1.
- 2.
- 3.
- 4.

II.

- 1.
- 2.
- 3.

III.

- 1.
- 2.
- 3.
- 4.

II.

I.

- 1.
- 2.
- 3.
- 4.

II.

- 1.
- 2.
- 3.

- 1.

- 2.

(§ 63, . 68 – 70).

(?)

(§ 64, .70 – 71).

, 3)

1)

, 2)

(§ 65, .72).

.72 – 73).

(§ 66,

19-

(§ 89, . 100 – 102).

(§ 90, . 102 – 104).

20

. 104 – 106).

(§ 91,

1. Pearson (1978, . 25)
 2. XIX
 - 3.
 4. . 8.
 - 5.
 6. . 7.
 7. –
 8. (1748
Achenwall (1749).
(Schlözer
1760-
1804)
 9. 1680- XVIII
 - 10.
 11. Gatterer (1773).
 12. (2019,
§ 7.2.1).
 13. XIX
 14. XIX .. Mahalanobis (1936, § 14)
 15. 1920-
 - 16.
 - 17.
 18. XVIII
 - 19.
 20. (
- .. (2019),
S, G, 11.

Achenwall G. (1749), *Abriss der neuesten Staatswissenschaft* etc. Göttingen.
Gatterer J. Chr. (1773), *Ideal einer allgemeinen Weltstatistik*. Göttingen, 1775.

- Mahalanobis P. C.** (1936), Note on the statistical and biometric writings of K. Pearson. *Sankhya*, vol. 2, pp. 411 – 422. **S, G, 82.**
- Pearson K.** (1978), *History of Statistics in the 17th and 18th Centuries* etc. Lectures 1921 – 1933. Editor E. S. Pearson. London.
- Schlözer A. L.** (1804), *Theorie der Statistik*. Göttingen. **S, G, 76.**

II

• •

• • — • •

- , .3, 1950, .475 – 485

1.

,) (

• • ,

,

, • • •

,

,

1893 ..

,

,

,

,

,

,

,

,

,

[1914 ..

:

(1914)]

:

,

XVIII

XIX

.

,

,

,

,

.

,

,

,

,

,

(

–

)

.

,

.

1

,

() ().

2,

1928

3

2.

1769

(-) 7 . 1836 . (.).

Collegium Carolinum

4

Bibliotheca mathematica L'intermédiaire des mathématiciens

(1948, . 395).

1801

5,

(, . 1, 1948, . 784 – 788)

- , ,
6,
1807 .,
1808 .
1820 .

3.

17 1816 . 19 1818 .

(?)

1828 . 31

29 18 2 11 1820 .
.27
1821 .

4.

1836 ..

1. 1788 – 1791:

Philosophy of the Natural History, vols. 1 – 2; Bailly, *Histoire de l'Astronomie*. Göttingen, tt. 1 – 2; *Dissertatio de calculo variationum*. ([]).

Disquisitiones quatuor ad theoriam functionum analyticam pertinentes. Dorpat, 1832 (

Vorlesungen über mathematische Analyse, in quarto. Dorpat. 45 – 46 Bogen, in quarto, 1833 [1837]. (45 – 46 60 .)

Aperçu abrégé des formules fondamentales de la géométrie à trois dimensions. 1825 . (

, 1830 .

Sur la parallaxe du Soleil

Sur les trois axes principales d'un corps solide ().

... (?) 1831 . *Mém. présentés à l'Académie des Sciences par divers savants*, t. 1, pp. 77 – 95. (1936).

1810 – 1849),
1831)

(Karl Edward Senff
(1829;

(Serret 1860)⁸.
1826 .

1829 .
Mathematische Vorlesungen über höhere Analysis

(20).
150
10 000
39
132
1833 .

[] 1833 1834 .
(1790 – 1838),
1835 .
9 .

[] 25 .
([] , [] , 1813)
1819),
(
, 1833, . 237) (

5.

(1903). (.639 .)

10 1819 .

[] [] [] [] [] []

1805 .
(.647)

[] [] [] [] [] []

1823 .

1823 .

1812 .

1812, 21.

?

11,

5. 1801 Biermann (1973).
6. 1804 . (.
 . 11, 1973. Biermann (1975, . 143) ,

 (1968, . 232).
7.

 (. , 1796 1797).
8. Paul Joseph Serret (1827 – 1898),
 Joseph Alfred Serret (1819 – 1885),
9. 1832 – 1840
 (. 1968, . 308).
10. (1968, . 218)
 1703
 (. 232)
11. 3.
12. (1968, . 232)
 . Biermann (1975, . 146) , ,
 (1944/1948, . 52)

- 55: 1813
 (. 69):

 (1914),
 (1936),
 , 1728 – 1935.
 (1903), , . 1 – 2.
 (1944), – , 1948.
 (1948), , . 1.
 (1968), 1917
- Biermann K.-R.** (1973), Die Briefe von Martin Bartels an Carl Friedrich Gauss. *Schriftenreihe f. Geschichte d. Naturwissenschaften, Technik u. Medizin*, Bd. 10, pp. 5 – 22.
- (1975), Martin Bartels – eine Schlüsselfigur in der Geschichte der nichteuklidischen Geometrie? *Mitt. d. Deutschen Akad. d. Naturforscher Leopoldina*, Bd. 21, pp. 137 – 157.
- Klein F.** (1926 – 1927), *Vorlesungen über die Entwicklung der Mathematik im 19. Jahrhundert*. Berlin.
- (1928), *Vorlesungen über nicht-euklidische Geometrie*. Springer.
- Lumiste U.** (1997), Martin Bartels as researcher: his contribution to analytic methods in geometry. *Hist. Math.*, vol. 24, pp. 46 – 65.
- Senff K. E.** (1829), *Systematische Darstellung der Hauptsätze der analytischen Geometrie im Raume*. Dorpat.

--- (1831), *Theoremata principalia ex theoria curvarum et superficierum*. Dorpat.
Serret P. (1860), *Théorie nouvelle géométrique et mécanique des courbes à double courbure*. Paris.

III

• • , • • , • •

S. S. Demidov, Svetlana S. Petrova, Tatiana A. Tokareva,
The Moscow Mathematical Society
and the development of the Russian mathematical community.
Arch. Intern. d'Hist. des Sciences, t. 66, No. 177, 2016, pp. 307 – 318

()

1864 .

1866 .

1810 .

1810 . [1]

1840).

1860-

1855 ..

1861 .

, 1863 .

1864 ..

15(27)

[2],

14

[3, 239].

1866 .. ,
)⁴ (.
 [3, .240],

15 .1864 .
 ,
 1865 .
 (),
 1866 ..
 ,
 1866 . 1866 .

XIX
 . 1867 . ,
 , 14 , ()
 . 1913 .. ,
 112 , 34
 ,57- , 21

[3, .317]

;
 ,
 .
 5.
 ,
 (. . . , . . .
), (. . . , . . .
 , . . .),
 (. . . , . . .), (. . .),
 (. . .)
 ()⁶.
 : ;
 ;

9

()

1890-

XIX

[5].

(. . .)

[6],

(*C. r. Acad. Sci. Paris*, . 152,

(. . . , . 153, 1912, . 244

1911, . 473 – 475),
– 246) -

1915 .,

(¹⁰)

(. . .
¹¹

1917 .

—

12

, ,

1930-

[7].

1914 ., . .

. 1917 .
1918 – 1920 .

[] ,

[; ,
],

13

1921 .,

1918 .

1920 .

. 1923 .,

, 1919 .
, 31- 1924 .

1920-

. . . ,
 .
 - :
 ()
 ,
 (. . .)
);
 -
 (,);
 -
 ();
 - ()
 (, . . . , . . .);
 - , () . . . ,
 () (.
 . , . . .).
 ,
 (,
 . . .)
 ,
 ,

1930-

.
 -
 ,
 , 1936 .
 (),
 , 1933 (?) 1946 .
 . 1946 .
 .
 ,
 (,
) . 1998 .

Russian Mathematical

*Surveys*¹⁷.

15 , ... 30 , ... 40

... 1957 – 1967 .

[,]

1934 .

, 1935 .

18 ,

(1964 – 1966), .

(1966 – 1970),

(1973 – 1985), . .

(1985 – 1996), . . .

(1996 – 2010).

[8, .9]

- 1.
- 2.
- 3.
4. [4, . 316].
5. : (1864 – 1866); (1866 – 1886); (1886 – 1891); . . . (1891 – 1903); . . . (1903 – 1905); . . . (1905 – 1921); . . . (1921 – 1923).
6. 1913 .. (2019, § 15.5
7. (2002, . 330). (2019, § 14.3).
8. 1912 . 1915 . . . (2019, § 15.3).
9. . 1.
10. 1500
11. : Khinchin (1916); Menchov (1916); Alexandrov (1916); Souslin (1917).
12. –
13. (2005, . 242)
- 14.
15. 1934 .

16. (1995), 1930 .

17. 1991 .
1960 .

18.

$C. r. = C. r. Acad. Sci. Paris$

1. . . (2002),

. 7 (42), . 39 – 61.

2. **Demidov S. S., Tikhomirov V. M., Tokareva T. A.** (2003 – 2004), The Moscow Mathematical Society. *Newsletter, European Math. Soc.*, No. 50, pp. 17 – 19; No. 51, pp. 25 – 27.

3. **Demidov S. S.** (1993), La revue *Matematicheskii Sbornik* dans les années 1866 – 1935. Ausejo E., Hormigon M., . *Messengers of Mathematics, European Math. Journals (1800 – 1946)*. Madrid. Siglo XXI de Espana. Editores, pp. 235 – 256.

4. . . (1968),

1917 . .

5. **Demidov S. S.** (1985), N. V. Bugaev et la creation de l'Ecole de Moscou de la théorie des fonctions d'une variable réele. *Boethius*, Bd. 12, pp. 651 – 673.

6. . . (1999),

. 4 (39), . 123 – 155.

7. **Duren P. L., Zdravkovska S.,** (1993), *Golden Years of Moscow Mathematics*. Amer. Math. Soc. *History of Math.*, vol. 6.

8. . . (1965),

. 20, 3, . 4 – 9.

Alexandrov P. S. (1916), Sur la puissance des ensembles mesurable B. *C. r.*, t. 163.

Egorov D. F. (1911), *C. r.*, t. 152, pp. 473 – 475.

Khinchin A. J. (1916), Sur une extension de l'intégrale de Denjoy. *C. r.*, t. 162.

Luzin N. N. (1912), *C. r.*, t. 153, pp. 244 – 246.

Menchov D. E. (1916), Sur l'unicité du développement trigonométrique. *C. r.*, t. 163.

Souslin M. Ya. (1917), Sur une définition des ensembles mesurables B sans nombres transfinis. *C. r.*, t. 164.

. . . (1997), . . .

2018 .

S, G, 91.

- . . (1995), 60- – 80- .
- , 4, . 55 – 65.
- (1997), . , 2, . 70 – 74.
- (2002), . . , . 7 (42),
- . 326 – 356.
- . . (2005),
- . , . 9 (44), . 238 – 252.
- . . (2007),
- . , . 12 (47), . 104 – 124.
- . . (2019),

S, G, 11.

2

?

42-

XXI

3

1-2

10

XXI

1.

1972

1973

2.

3. 1975

T. C. Koopmans

?

[1, . 118]

1961 . 1,

1960 .

2?

[2]

45-

:

;

;

;

,

3

[2].

1960 .

1949 – 1950 .

1939 .

1940 .

[]

[3]

(-)

1958 .

(,

).

(

).

... ,

4,

...

5,

6.

[3],

(.50).

[4-7].

[4]

[-]

1960 .,

1953 .

[5]

7.

[iv]

1960 .

(. . . ,

.)

!

-

1959 .

8.

(

.)

15 – 20

[6]

()

9

1939

1940-

10

1940-

(1949 – 1951 .).

[7]

[]

1.

1949 – 1950 .

[8].

11

2.

(),
().

3.

(.).
(?),

4.

(),

5.

6.

1 1961 .

[. . . - .].

[9 – 10].

12,

[8]

1959 – 1960 .

[1, .13],

(,),

, [11],

1960 .

13

[14]

[,],

[9]

(

14).

15

[12].

16

17

[10]

1962 .

1. (1961 .)

1954 .

(1998/2001, . 187).

2.

3.

4.

5. , , ,

6. .

7. (1998/2001, .186).

8. ? 1949 – 1950 .

(2013).

9. .

10. , . . .

11. -

12. 1930- , 1960 . (1998/2001, .189 – 190).

13. , , (1961).

(.254) ,

(, § 5,). (1960, .44) :

14. 1963 ,, () 2012 . 1936 . (1915).

15. . . .

16. .13. . .

17. , [13]. . . .

: =

1. . . . , 1962.

2.
3., 10 1961.
4., 1960.
5., 5, 1960.
6., 11, 1960.
7., 15, 1960.
8., 2, 1961.
9., 1961.
10., 1959.
11., 1962.
12. [vii].
13., 18 1961.
14.

(4 – 5 . 1960 .), . 1. ., 1961.

. (1961),, 6, . 248 – 261. (1915, .), 4, 2016. (1998, .), 6 (41), 2001, . 179 – 198. --- (2013),, 1, . 148 – 158.

...

(, ,),

.

, ,

.

,

,

.

:

().

,

,

.

,

,

,

,

,

.

,

,

.

.

,

()

.

,

-

,

.

.

,

.

()

:

,

,

.

,

,

,

.

(, ,).

(1960); (1972).

1928 .

1993 .
1960-

20%,

5 .

10%.

8 ,

80%

12,5%

(
).

(

)

(1921 – 1929)

1930-

. . (1972),

1921 – 1929. . (

. . .)

. . (1960),

VII

.

,

:

Robert W. Campbell, Marx, Kantorovich and Novozhilov: Stoimost' versus reality.
Slavic Rev., vol. 20, No. 3, 1961, p. 402 – 418

, . 28, 5 – 6, 1992, . 674 – 686

[]

,

,

,

,

.

,

,

,

1920-

(value)

(. . .)

XIX

[].

[2, 3].

1930-

[4].

[]

1940-
([7 - 9] .),
1950-

1959 .
[10],

)

3.

,

,

.

,

,

,

.

.

,

(

)

,

,

,

.

,

,

,

,

,

,

,

.

,

,

,

,

,

,

.

,

,

,

,

,

-

.

,

,

,

,

,

.

[11].

,

,



?

?

?

()

[15] - , ,

[16]

[iv]).

[14, .478].

:

(. . .),

(. . .).

6

[]

()

[20].

[14, .3],

[17, .114],

1. value
1920-
1930-
value
2. \
3. [6].
- 4.
5. (1960)
[17]. 122.
[18],
6. [7, . 110 – 112].

1. *Slavic Rev.*, 1961, vol. 20, No. 3.

2. „
- „, 1949.

3. „
„, 1959.

4. „
„, 1939.

5. *Management Science*, 1960, July.

6. **Dorfman R., Samuelson P., Solow R.**, *Linear Programming and Economic Analysis*. New York, 1958.

7. , 1942, 7 – 8.

8. , - , 1949, 7.

9.
 , 1949.

10.
 , 1959.

11. **Grossman G.**, Scarce capital and Soviet doctrine. *Q. J. Economics*, 1953, vol. 66, No. 3

12.
 1939, 4.

13. , , 1946, 1. 12 13:
Intern. Econ. Papers, 1956, No. 6.

14. ,
 , 1959.

15. , 1960, 1.

16. ,, , 1960, 11.

17. , 1960, 8.

18.
 , 1961.

19.
 1959, 4.

20.
 , 1957.

(1954),
 , 5, . 39 – 95.

. . . . (1915,),
 , , 4, 2016, . 241 – 271.
 , . 271 – 277.

VIII

• •

, 4, 1995, . 65 – 74

[1] 1930 .

1920 .

1924 .

[1].

, 1917 .

1918 .

(. . .)

1918 .

(1872 – 1919),

16 ,

[2].

1920-

,
, , ,
1921 .

,
1923 .

[
],

1925 . [3, . 225 – 226]:

[...],

1930 .

1922 . [4; 5]:

1.

[2]

1918

1923 .

1916 .(?)

2

1936 .

1928 .

(?)

1928 – 1929 . [9, . 47 – 49].

. . . ,

. . . .

. . . ,

. . . , -

, , . . . ,

, ,

, . . .

, ,

,

29 1928 .

3 .

. . . , . . . , . . . „ 16 ,

.

.

,

,

,

-

[10].

[3]

,

.

,

1909 .

,

. 1920-

,

,

,

.

,

,

,

.

4

, 1930 .

[14],

[11].

5,

[12]. [13,

.57]

, 1930 .

[14].

6,

XVI

().

[15]:

[4]

7.

, [16 – 24],

[25].

[25, .7]

, - ;
 ; ,
 8 .
 , - .
 (, [20, .34], ,
). , [25, .6] - [?]⁹.
 , (),
 [16]. ?
 [21] .
 () . - , .
 . , .
 . ()
 . [22],
 10 ,
 .
 - - []¹¹.

... () :

[27]

[26]

¹². (

[25, . 8]

[20, . 38]

¹³,

[5]

1930 – 1931 .

[28, . 48]

(, ,).

: , , ¹⁴, [...]

¹⁵

[29, . 70]:

(. . - . .)

, 1931 .

¹⁶,

[27, .

39]

(- . .)

[24],

(),

1924 .

[32, . 39 – 48].

[33],

1920 .

1923 .

1926 .,

1929 .,

1926 .,

[34, .1],

(. ,
- . . .)

[30, .37].

(. . .),

17,

24 - 29 1930 .,

XVI

[30],

18. (. . .)

[. . . ?]).

1934 .

19,

1930 . [35, . 6].

(1930 – 1931),

20,

1930 .

21

1931 .

27

1931 .

[21].

1931 .

88

[36],

21 .

[37]:

(

[30, . 36 – 38].

[. .].

1931 .

[30],

[7]

21 1932 .

[38].

1932 .

1

, 19 1932 .

22

(,) ,

[1, .98]:

1930-

1934 .

[8]
98 - 100]:

1959 .
[33, .

1. 1891 .. 1920 . [5, . 24 – 26] 24
1922 .
1923 . [6, . 23 – 25].
356] [8, . 163]. [6] [7, . [5]
- (1891/1979, . 189):
Kommen wir dagegen durch einen Krieg vorzeitig ans Ruder, so sind die Techniker unsre prinzipiellen Gegner, betrügen und verraten uns, wo sie können, wir müssen den Schrecken gegen sie anwenden und werden doch beschissen.
2. (1937)
?
- 3.
4. 1941 ..
?
- 5.
6. (
7. (1982).
8. (1938).
9. :
10. 1954 .
(1997/2001, . 187 – 188).
(!)
(1866, . 154)
11. (,)
(1961, . 294)

12. ! (1998/2001, . 188),
13. 1933 1934 . , , : . 189 – 190.
- , - 1920-
14. (1937 . (1982, . 132). , ,)
? (2007 , . 113 – 117)
15. (2007 , . 113 – 117)
16. , 1928 . , (!)
17. 29 1930 .
- 1924 . 1929 . ,
1924 .
18. (2007 , . 117 – 118)
19. , (.) § 6
(1995).
20. (1929 .): ,
, . 6.
21. !
, , : , ,
?
22. , § 6.

1. . (1991), , 6, . 95 – 104;
7, 77 – 83.
2. . (1957),
, 11, . 54 – 57.
3. . (1961), . .
, 6.
4. . (1930),
20
5. Engels F. (1920), *Politisches Vermächtnis. Aus unveröffentlichten Briefen.*
Berlin.
6. . (1922), ()
, 1923.
7. „ . (1949), , . 28. .
8. „ . (1965), , . 38. .
9. 1928 – 1929 (1929). .

10. .- (), 238,
1, 107.
11. . (1930), , 3
12. (1930),
, 14
13. (1957), 11.
14. . (1930), ,
29
15. (1931), ,
6
16. . (1931), -
17. . (1930), , 11 .
18. . (1931), , 1 (5), . 122 – 130.
19. . (1931), , 1, . 27 – 40.
20. . (1931), , 6,
. 10 – 15.
21. . (1931),
(2007b).]
. - ., . 26 – 40. [
22. . (1932), . . . ,
. - ., . 203 – 215.
23. . (1931), -
24. . (1929),
. - ., . 5 – 8.
25. , 1, . 157 – 159. (1931).
26. . „ . . . (1931),
27. (1931). - .
28. (1931).
29. . - .
30. (1930), , 11 – 13, . 67 – 71.
(1931). - .
31. , . 238, . 1, 107.
32. . (1989), . . .
33. . (1923), . . .
34. , . 759, . 3, 258.
35. . (1990), . . .
, . 1, . 4 – 8.
36. , . 263, . 1, 1.
37. , , 2.
38. , , 3.

. . (1866),
 . . 8, . 6.
 . () (1982),
 . (1938),
 , 23 – 24, . 116 – 123.
 . . (1995), 1960- –
 1980- . , 4, . 55 – 65.
 (1961),
 . . (2007),
 . . 12 (47), . 104 – 124.
 --- (2007b),
 . 125 – 132.
 . . (1937),
 . , 7, . 36 – 46.
 . . (1997, .),
 . . 6 (41), . 179 – 198.

Marx K., Engels F. (1979), *Werke*, Bd. 38. Berlin.

[2]

XIX

[1, . 70 – 71]:

[...].

Dreadnought

XIX

[2, . 127]:

[...]

[...]

...

[2, . 3 - 4],

...

[2]:

...

[1, . 75 - 76]

...

XIX . . [4, .141]

[5, .7]

[5]

XIX -

[4a, c. 535] :

XIX

1890-

[1, .21 – 22]

(
(

[...]

[6]

[2, .34]

[2, .89]

([5, .274]),

[...]

,

XIX .

[3, . 171],

,

[6, . 117]:

,

1870 .

[7]

,

[8]

[]

[2, . 188 – 189]

[9]

[1, . 143]

XIX

([10]).

$Q,$

[...].

$Q > 1,$

$Q < 1,$

[1, .295]

[11]

1905 ., [7, .9–15]

1897 .

[8, .11] :

[9, .30–31].

[12]

[10, .33 .].

[11, .8]. ,

[- . .] ,

[13]

[12, .14 – 35].

(.28 .)

[15]

[16, .110]

(- . .)

[17, . 11 – 12]

1)

; 2)

3)

()

[16]

XIX

XIX

19].

[18;

[20].

[21]

[22],

[5,

. 12]:

[24, .57]

[...]

[25, .96]

[18]

[5, .3]. E

[§ 16],

[5, .8],

. [...]

[26, .21],

1. . . . , 1909/1959.
2. . . . , 1960.
- 2a. . . . , 1838.
3. . . . , 1879.
4. . . . , 1867.
- 4a. „ . . . , .20.
5. . . . 1909/1928.
6. . . . , 1898.
7. . . . , 1909.
8. . . . , 1900, .1.
9. . . . ?
. . . . , 1908, 8.
10. . . . , 1922.
11. . . . , 1918.
12. . . . , 1969.
13. . . . , 1859.
14. . . . , 1952, . . . ,
15. . . . , .6. . . . , 1961.
16. . . . , .4. . . . , 1916.
17. . . . , 1915 –
1916, 3 4.
18. . . . , 1958.
19. . . . , 1896.
20. . . . , 1894.
21. . . . , .1, 1. . . . , 1898.
. . . . , .31,
62. . . . , 1901.
22. . . . , 1895.
23. . . . , 1914.
24. „ . . . , 1971.
25. . . . ,
. . . . , 1965.
26. . . . , .1. . . . , 1930.
- 26 , .24.

..

..

(),

..

,

:

1984 .

(1909, 1910,

1959).

(

1968, .51)

1910 .

(

),

12 13

(

(1990/2010, .9).

(1963)

(1976),

.37

38,

1954 .(1954),

(2015)

(,): ,

. 166.

(2019,

§ 15.5),

, § 11.3.

1910 – 1917 1909 – 1910 .

(. 284 – 286)

1905 1906 .,

. . 1.

(2019, § 11.5),

(, § 9.9.2).

() (Czuber 1908)

(1990/2010, . 18

– 19).

() (1990/2015).
(2016)

. 2.

XIX

. 20 (1959)

(1843, §

105).

. 3. . .

(. 23)

(1937, . 242),

() .
(2010, § 16.2). , 1933 . , ,
, , ,

4. . . ?
, ,
() ,
() ; ,
,

5. . . . 8.

()

2019, §§§ 3.1.4, 11.8.3 11.6).
(1904):
(

),
. 10. . 1898 .,
(1990/2010, . 11). . 11.

. . 16.

(Bortkiewicz 1930).

. . 17.
()

18. m , $(m-1)$.
. . 29. . . ,

- (2019) (1892/1911), § 3 (2016).
 ().
- (1954), 5, 39 – 95.
 (1963), 7, 261 – 283.
 --- (1976), 9, 36 – 41.
 (1968),
 ., **Sheynin O.** (1990), 2010.
 --- (2015), **S, G**, 69.
 --- (2016), 4, 104 – 118.
 --- (2018), The sledgehammer law. *Silesian Stat. Rev.*, No. 16/22, pp. 127 – 156.
 --- (2019), **S, G**, 11.
Bortkiewicz L. (1930), Lexis und Dormoy. *Nordic Stat. J.*, vol. 2, pp. 37 – 54.
Czuber E. (1908), *Wahrscheinlichkeitsrechnung*, Bd. 2. 1968.
Pearson E. S. (1936 – 1937), Karl Pearson: appreciation of his life and work. *Biometrika*; vol. 28, pp. 193 – 257; vol. 29, pp. 161 – 248.
Pearson K. (1904), S. Newcomb, Methods for promoting research in the exact sciences. : *Carnegie Instn of Washington, Year Book* No. 3 1904, 1905, pp. 179 – 193. **S, G**, 48.

6.
 27 3 1931 .
 250 25 .

1920-

:
 , . . , . . , . .
 : , ()
 : ,)
 :
 , , .
 :
 , , .
 , , ,

 . [...]
 , *shocking* []
 , []

Science on the Crossroads [] .

1930-
4
5
1913 – 1914
1924
1920-
1919
1927
1931

:

