

APPENDIX

INTRODUCTION

The Russian originals of the 111 simulated MT texts given below have been published in our previous comprehensive report.* The predicted translations contain a number of editorial symbols intended to be supplied by the automatic MT system together with the translation in order to aid the reader in choosing the proper alternatives demanded by the context. These symbols and their significance are discussed and exemplified below. The reader will notice in the chart and in the simulated output text that also the space between free forms, in fact the number of spaces, is utilized in this symbolization.

In the abstract representation preceding each of the exemplifications given in the chart, uninterrupted sequences of the letter "x" stand for the letters of semantic units of the target language. This abstract representation is used only to emphasize the presence of the special editorial symbols.

a) Symbols of Special Significance

1. XXXX-XX-XXXX,
XX-XXXXX,
XXXX-XXXXXXXX-XXXXXXXXX
The hyphen in this environment separates the free-form constituents of a single target equivalent.
Examples: what-is-more, in-favor, edge-planing-machines
2. XXXXX/XXXXXXXXXX/XXXXXX
XXXXXXXXXX/XXXXXXXXXX
The single slash separates the alternative choices in a target "string", one of which must be selected on the basis of the context.
Examples: leads/conducts/raises
 agitated/indignant
3. XXXX-
XXXXX-
-XXXX/XXXXXXXX/XXXXXXXXX
The hyphen in these environments indicates bound target equivalents, or right or left bound alternatives in target "strings".
Examples: anti-, tachy-, -like/visible/important
(See The Role of Space No. 3 for examples of an output sequence representing compounds).
4. (XX/XXXX/XX)XX-XXXX
XXXXXXXX/XX-(XX)XXXXXXXX,
(XX/XXX)XXXXXXXX-XXXX(XXXX),
(XX)(XX/XXX)XXXXXXXX(X).
Alternatives within parentheses are to be selected or rejected depending on context; if selected, they are to be read with any material directly preceding or following the parentheses. (But see point No. 5) Grammatical alternatives within parentheses preceding and following a target equivalent are mutually exclusive. The one appropriate to the context is chosen, but even this one may be excluded by the larger context.
Examples: (by/with/as)the-same,
 changes/is-(ex)changed,
 (to/for)working-over(time),
 (of)(to/for)surface(s).
5. (XX)XXXXXXXXXXXX//XXXXXXXXXX
(XX/XXX)XXXXX(XX)//XXXXXX
Double slash signifies that the material within parentheses is to be read with the suggestions found only before or after the double slash depending on the location of the parentheses.
Examples: (of)dissolving//solutions
 (is/are)quick(er)//rather
6. XXX(XXX) *XXXXX-XXXXXXXX
(XX)XXXX * (XX)XXXX-XXXXXXXX
An asterisk indicates that the immediately preceding target "string" may be automatically eliminated from consideration.
Examples: big(ger) *great-distance
 (of)bolt *(of)bolt-joints

* The Selected Russian Text Passages, LINGUISTIC AND ENGINEERING STUDIES IN AUTOMATIC LANGUAGE TRANSLATION OF SCIENTIFIC RUSSIAN INTO ENGLISH, Linguistic Analysis, Appendix III, pp. 1-170.

7. xx/xx/xx/xxx/xx/xxxx--xxxx/xxxxx₃
 *xx-xxxxxxxx

Two hyphens not separated by any space join two separate target "strings" which are to be considered as one target "string" to be eliminated if the next target equivalent is preceded by an asterisk.
 Example: on/in/at/for/by/with--iron/ferric₃
 *on-railroads

8. (xx)xxxxx/xxxxxxxx/xxx/---
 xxx/xxx/---

Three hyphens after a slash refer the reader to the section of this manual containing the reference list of unusual or rare target alternatives. These little used alternatives will be found in the manual under the whole entry as found in the output text.
 Examples: (to)carry/perform/lay/---
 but/and/---

9. xxxxxxxx/xxxxxxxxxxx₈₃/xxxxxxxxxxx₉₁
 (xx/xxx/xx)xxxxxxxx/xxxxxxxxxxx/5/xxxxxxx₉₇

The subscript numbers to the right of certain target alternatives refer to fields and subfields of specialization on the Synoptic Table of Fields of Science found in Section 12.5.
 Examples: variable/alternating₈₃/reversible₉₁
 (by/with/as)defeats₅/strikes₉₇

(b) The Role of Space Between Target Equivalents

1. xxx-xxxx (xx)xxxxxxx
 xxxx (xx)xxxxxxxxxxx

Three spaces separate individual target "strings".
 Examples: the-most (of)important
 such (of)conditions

2. xx xxxxxxxx/xxxxxxxx-xx/xxxxxxx₉₁
 (xx/xxx)xxxx xxxxxxxx/xxxxx/xxxxx(xx)

One space divides one target "string" into two groups and indicates that the groups so separated are to be read together after the proper choice from alternatives separated by a slash has been made.
 Examples: is included/switched-on/engaged₉₁
 (is/are)more frequent/thick/rapid(ly)

3. xxxxx- xxxxxxxxxx,
 xxx- xxxxxxxx

Hyphen and two spaces separate the target equivalents of the members of a compound where the first member is a prefix, i.e., occurs only as a bound form.
 Examples: supra- clavicular,
 ept- gastric.

4. Xxxxx xxxxx
 Xxxx xxxxx

Two spaces separate the target equivalents of the members of a compound whose first member occurs both bound and free.
 Examples: Diesel motor
 Watt motor

5. xxxx - xxx
 xxxxx- - xxxxxxx

Two spaces, a hyphen and two more spaces separate the constituents of a hyphenated compound if the first element is always bound.
 Examples: dark - red
 dorso- ~ ventral

APPENDIX

THE SIMULATED MACHINE TRANSLATIONS

1 -- ОСНОВЫ МЕТЕОЛОГИИ, pp. 325-6

1. 50. REALIZATION (of)STANDARDS.
2. CONSTRUCTION/DESIGN (of)STANDARD, (of)(to/for)(by/with/as)HIS/ITS//HIM/IT PHYSICAL *PHYSICAL-PROPERTIES AND/EVEN/TOO--- METHOD (of)REALIZATION(S) ARE DEFINED/DETERMINED/ASSIGNED (by/with/as)NATURE (of)MAGNITUDE/QUANTITY(S), UNIT/ONE (of)(to/for)(by/with/as)WHICH IS-REPRODUCED, AND/EVEN/TOO--- (by/with/as)STATE/FORTUNE (of)(to/for)(by/with/as)MEASURING/-DIMENSIONAL (of)-TECHNICS/PRACTICE/TECHNOLOGISTS IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)GIVEN (of)(to/for)-AREA/OBLAST(S) (of)MEASUREMENTS.
3. ONLY (of)DEFINITION/DETERMINATION/ATTRIBUTE₆₂(S) (of)INDEPENDENT (of)UNITS/ONES (THEY)GIVE/ALLOW CERTAIN/SOME PROGRAM (of)ACT(ION)S/EFFECTS/OPERATIONS FOR (of)REALIZATION(S) (of)STANDARDS, IN-AS-MUCH-AS THESE (of)DEFINITION/DETERMINATION/ATTRIBUTE₆₂(S) (THEY)CONTAIN/MAINTAIN INDICATION/-INSTRUCTION ON/IN/AT/TO/FOR/BY/WITH SUBSTANCE AND/EVEN/TOO--- (of)CONDITION(S), IN/TO/AT/ON/OF/-LIKE (of)WHICH IT MUST/SHOULD/OWES (to)BE(FOUND).
4. (of)DEFINITION/DETERMINATION/ATTRIBUTE₆₂(S) HOWEVER/THEN/ALSO (of)DERIVATIVE (of)UNITS/ONES (THEY)-PURSUE/PERSECUTE/PROSECUTE₆₂ ONLY/SINGULAR AIM/TARGET (to)INSTALL/ESTABLISH/PLACE SIZES/DIMENSIONS/SCALES/METERS (of)UNITS/ONES, NOT CONCERNING/TOUCHING (of)METHODS (of)(to/for)(by/with/as)-THEIR(S)//THEM (of)PRACTICAL (of)REALIZATION(S).
5. LAST/LATTER IS ATTAINED/REACHED (to/for)(by/with/as)SKILLFUL (by/with/as)CHOICE/SELECTION (of)-PRIVATE/PARTICULAR/QUOTIENT₁/PARTIAL₁ (of)CASE/CHANCE/OCCURRENCE (of)GENERAL/COMMON/TOTAL (of)LAWS (of)APPEARANCES/PHENOMENA/SYMPTOMS₅₃, (of)TYING/CONNECTING/KNITTING (of)MAGNITUDE/QUANTITY(S), (of)-UNIT/ONE(S) (of)WHICH (THEY)ENTER IN/TO/AT/ON/OF/LIKE DEFINITION/DETERMINATION/ATTRIBUTE₆₂ (of)-(to/for)(by/with/as)DERIVATIVE (of)UNIT/ONE(S).
6. SO, FOR-EXAMPLE, OUT/FROM (of)DEFINITION/DETERMINATION/ATTRIBUTE₆₂(S) (of)INTERNATIONAL (of)AMPERE (INDEPENDENT UNIT/ONE), HOW/AS/BUT (of)FORCE(S)/STRENGTH/EFFORT(S) (of)ELECTRIC(AL) (of)-CURRENT/MATING-PLACE₄₂, (of)POSTPONING/DEPOSITING DEFINITE SEDIMENT/PRECIPITATION (of)SILVER AT/WITH/BEFORE/IN-TIME-OF PASSING(THROUGH) OVER/THROUGH/WITHIN/EVERY(OTHER) WATER SOLUTION/OPENING NITRIC-/NITRO (of)(to/for)(by/with/as)SILVER (of)(to/for)SALT(S), (is)STRAIGHT/DIRECT(LY) FLOWS-OUT/EMERGES METHOD (of)REALIZATION(S) (of)UNIT/ONE(S) AND/EVEN/TOO--- (of)(to/for)(by/with/as)-HERS/ITS//HER/IT (of)STANDARD - (of)SILVER (of)VOLTMETER, THEN HOW/AS/BUT OUT/FROM (of)-DEFINITION/DETERMINATION/ATTRIBUTE₆₂(S) (of)ABSOLUTE (of)AMPERE (DERIVATIVE UNIT/ONE), HOW/AS/-BUT (of)FORCE(S)/STRENGTH/EFFORT(S) (of)ELECTRIC(AL) (of)CURRENT/MATING-PLACE₄₂, (of)FLOWING/-LEAKING ON/BY/ALONG/FOR/IN--- (to/for)TWO (IS)INFINITE(LY) (to/for)(by/with/as)LONG (to/for)-CONDUCTORS (IS)INSIGNIFICANT/WORTHLESS(LY) (of)SMALL (of)(CROSS)SECTION(S), (to/for)(by/with/as)-DEFINED/DETERMINED/ASSIGNED *IN-A-DEFINITE-WAY/(by/with/as)DEFINITE-IMAGE (to/for)LOCATED/ARRANGED/-DISPOSED AND/EVEN/TOO--- (of)CREATING DEFINITE FORCE/STRENGTH/EFFORT (of)INTERACTION(S) BETWEEN/AMONG (by/with/as)THESE (by/with/as)CONDUCTORS, (of)NO (of)CONCRETE (of)METHOD (of)-

- REALIZATION(S) (of) STANDARD NOT FLOWS-OUT/EMERGES, SINCE (IS) INFINITE(LY) LONG CONDUCTORS, WHICH IN-ADDITION//TO(WARD)/FOR THE-SAME (THEY) ENDURED/MAINTAINED/PASSED/AGED₉₂/SOAKED₉₅ (WOULD-HAVE)(HAVE) CURRENT/MATING-PLACE₄₂ (by/with/as) FORCE/STRENGTH/EFFORT IN/TO/AT/ON/OF/LIKE ONE/ALONE AMPERE//(of) AMPERES AT/WITH/BEFORE/IN-TIME-OF (IS) INSIGNIFICANT/WORTHLESS(LY) SMALL (CROSS) SECTION PRACTICALLY NOT (ARE) REALIZABLE.
7. BUT USING LAW (of) INTERACTION(S) BETWEEN/AMONG (by/with/as) IMMOBILE/INACTIVE AND/EVEN/TOO/--- (by/with/as) MOBILE/LIVELY (by/with/as) SPOOLS/\$PLANORBIS₄₂/COILS₈₃, (to/for)(by/with/as) DEFINED/DETERMINED/ASSIGNED *IN-A-DEFINITE-WAY/(by/with/as) DEFINITE-IMAGE (by/with/as) LOCATED/ARRANGED/DISPOSED CONCERNING/(IS) RELATIVE(LY) EACH-OTHER IN/AT/ON--TERRESTRIAL--FIELD *IN-THE-FIELD-OF-GRAVITY-OF-THE-EARTH, AND/EVEN/TOO/--- BALANCING (by/with/as) LOAD FORCE/STRENGTH/EFFORT (of) INTERACTION(S) BETWEEN/AMONG THEM, IT-IS-POSSIBLE (to) REALIZE STANDARD (of) ABSOLUTE (of) AMPERE IN/TO/AT/ON/OF/LIKE (to/for)(UNI)FORM (of) WEIGHTS SCALES (AMPERE-SCALES).
 8. OUT/FROM (of) ALL (of) (BEING) (RE)PRESENTED (of) METHODS (of) REALIZATION(S) (of) STANDARD (THEY)-ARE CHOSEN/TAKEN-OUT//GET, (IS) FINAL/FINITE(LY)//OF-COURSE, THOSE, WHICH (THEY) ALLOW (to) SECURE/-PROVIDE THE-VERY-BIG(GER) (METROLOGICAL) ACCURACY (of) REPRODUCTION(S) (of) UNIT/ONE(S).
 9. (BEING) REALIZED STANDARDS MUST/SHOULD/OWE (to) POSSESS (by/with/as) UNCHANGEABILITY, (by/with/as)-REPRODUCIBILITY AND/EVEN/TOO/--- (by/with/as) COMPARABILITY.
 10. THOSE (of) RELATIONSHIP//(of) PROPERTY/NATURE(S) SO (IS) TIGHT/CLOSE(LY) (ARE) TIED/CONNECTED/KNITTED ONE-WITH-ANOTHER, THAT/WHAT/WHICH (of)(to/for)(by/with/as) THEIR(S)//THEM IT-IS-POSSIBLE (to) CONSIDER/COUNT (by/with/as) ESSENTIAL (by/with/as) SIGNS, (by/with/as) INHERENT (to/for) EACH (to/for)-STANDARD.
 11. UNDER/NEAR/LIKE/HEARTH-BOTTOM (by/with/as) UNCHANGEABILITY (of) STANDARD IS-IMPLIED (of)(to/for)- (by/with/as) HIS/ITS//HIM/IT PROPERTY/NATURE/RELATIONSHIP (to) HOLD-BACK (to/for)(by/with/as) CONSTANT/-INVARIABLE SIZE/DIMENSION/SCALE/METER₆₂ (of)(to/for)(by/with/as) (BEING) REPRODUCED (by/with/as) HIM/IT//(to/for) THEM (of) UNIT/ONE(S) DURING UNLIMITEDLY (of) LONG (of) INTERVAL (of)(to/for) TIME/TENSE₆₂ BUT/AND ALL (of) CHANGE(S), DEPENDING-ON (of) DIFFERENT (of) EXTERNAL/FOREIGN (of) CONDITIONS ((of) TEMPERATURE(S), (of) PRESSURE(S), (of) WEIGHT(S) AND-SO-FORTH) OR (of)(to/for)- (by/with/as) INTERNAL (of) STRUCTURE(S), MUST/SHOULD/OWE (to) BE (by/with/as) DEFINITE (by/with/as)-FUNCTIONS (of) MAGNITUDES/QUANTITIES, (of) ACCESSIBLE (to/for) EXACT/PRECISE (to/for) MEASUREMENT.
 12. THIS PROPERTY/NATURE/RELATIONSHIP FIRST-OF-ALL SUPPOSES/PROPOSES PROPER CHOICE/ELECTION (of)-MATERIAL FOR (of) PREPARATION(S) (of) STANDARDS.
 13. LAST/LATTER NOT MUST/SHOULD/OWE (to) BE SUBJECTED/EXPOSED (to/for) WEAR, (to/for) AGING, (of)- (to/for) CORROSION AND/EVEN/TOO/--- (to/for)(by/with/as) (AN) OTHER (to/for) CHANGES AT/WITH/BEFORE/-IN-TIME-OF (of)(to/for)(by/with/as) THEIR(S)//THEM APPLICATION OR PROLONGED KEEPING.
 14. FROM/OF/FOR (of) MATERIAL IS-REQUIRED STABILITY, STABILITY, SOMETIMES EXCEPTIONAL/EXCLUSIVE PURITY CLEANLINESS.
 15. ALL CAUSING/CALLING DOUBT MATERIALS MUST/SHOULD/OWE (to) BE (ARE) EXCLUDED.
 16. ACHIEVEMENT (of) THESE (of) CONDITIONS PRESENTS/REPRESENTS (IS) EXTRAORDINAR(IL)Y DIFFICULT PROBLEM, ON/IN/AT/TO/FOR/BY/WITH (RE) SOLUTION/DECISION DERIVATION (of)(to/for)(by/with/as) WHICH (THEY) WERE-SPENT CONSIDERABLE SIGNIFICANT (of) FORCE(S)/STRENGTH/EFFORT(S)/QUANTITY AND/EVEN/TOO/--- NOT ALWAYS WITH/FROM/ABOUT (to/for)(by/with/as) PROPER (by/with/as) SUCCESS.
 17. MUCH/MANY (of) STRESSES/EFFORTS, FOR-EXAMPLE, (THERE) WAS (IS) SPENT ON/IN/AT/TO FOR/BY/WITH FINDING (of) FUSION/FLOAT₄₆/ALLOY₉₅, WHICH SECURED/PROVIDED (WOULD-HAVE)(WOULD (to/for) STANDARDS (of) ELECTRIC(AL) (of) RESISTANCE(S) (of)(to/for)(by/with/as) THEIR(S) THEM CONSTANCY; (ARE) ATTAINED/REACHED BIG(GER) SUCCESSES/PROGRESS IN/TO/AT/ON/OF/LIKE PREPARATION (of) MANGANIN, (of)-POSSESSING (IS) EXTRAORDINAR(IL)Y (by/with/as) VALUABLE (by/with/as) METROLOGICAL (by/with/as) PROPERTIES/NATURES, BUT NEVERTHELESS/ALL NOT (of) POSSESSING (by/with/as) CONSTANCY IN/TO/AT/ON/OF/-

LIKE (of)(to/for)(by/with/as)THAT (of)(to/for)DEGREE/POWER(S), WHICH IS-REQUIRED (by/with/as)-
 CONTEMPORARY (by/with/as)METHODS (of)EXACT/PRECISE (of)ELECTRIC(AL) (of)MEASUREMENTS, THEREFORE
 SEARCH/RAIDS (of)NEW (of)FUSIONS/FLOATS₄₆/ALLOYS₉₅ (ALL)STILL/YET/MORE/ALSO (THEY)CONTINUE.

18. FOR (of)REPLACEMENT(S) (IS)DEAR(LY) (of)(to/for)(by/with/as)STANDING/COSTING/BEING-WORTH (of)-
 PLATINUM (ARE)CREATED IRON- NICKEL FUSIONS/FLOATS₄₆/ALLOYS₉₅ (INVAR AND EVEN/TOO/---
 OTHER), ALSO POSSESSING VERY (by/with/as)VALUABLE (by/with/as)METROLOGICAL (by/with/as)-
 PROPERTIES/NATURES, HOWEVER MANUFACTURED/PREPARED OUT/FROM THEM LINEAR/LINE₉₆ (of)MEASURE(S)//-
 -MERS (THEY)CHANGE/BETRAY OWN LENGTH WITH/FROM/ABOUT (by/with/as)CURRENT/COURSE (of)(to/for)-
 TIME/TENSE₆₂, THAT/WHAT/WHICH MAKES/DOES (of)(to/for)(by/with/as)THEIR(S)//THEM (by/with/as)UN-
 SUITABLE FOR (of)PREPARATION/MANUFACTURE(S) (of)PRIMARY/INITIAL (of)STANDARDS.

2 -- ОСНОВЫ МАТЕМАТИЧЕСКОГО АНАЛИЗА, p. 140

1. DIFFERENTIATION (of)FUNCTIONS (of)(to/for)(by/with/as)ONE/ALONE (of)(to/for)(by/with/as)VARIABLE/-
 ALTERNATING₈₃/REVERSIBLE₉₁.
2. DERIVATIVE AND/EVEN/TOO/--- (of)(to/for)(by/with/as)HERS/ITS//HER/IT CALCULATION.
3. PROBLEM ABOUT/AGAINST/WITH CALCULATION (of)(to/for)SPEED(S) (of)MOVING-POINT.
4. GOING-OVER/CHANGING TO(WARD)/FOR (to/for)EXPOSITION/ACCOUNT (of)BASES/WARPS₉₈/STEMS₆₂ (of)DIFFER-
 ENTIAL AND/EVEN/TOO/--- (of)INTEGRAL *(of)INTEGRAL-CALCULUS, WE (WE)TURN/CONVERT/REDUCE₃ AT-
 TENTION (of)READER ON/IN/AT/TO/FOR/BY/WITH THE-FACT-TAT/THAT-WHICH (of)IDEA(S) (of)THIS (of)-
 CALCULATION/CALCULUS(S) WERE-CONCEIVED STILL/YET/MORE/ALSO IN/TO/AT/ON/OF/LIKE XVII CENTURY/-
 EYELID, THAT-IS LONG-BEFORE (of)THOSE (of)THIN/FINE (of)THEORIES, WHICH WE STUDIED IN/-
 TO/AT/ON/OF/LIKE (of)PRECEDING CHAPTERS/HEADS.
5. ONLY/AS-SOON-AS IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)CONCLUDING (to/for)CHAPTER/HEAD (of)-
 THIS (of)VOLUME WE (WE)SHALL(BE) (to)HAVE POSSIBILITY (to)CONCERN/TOUCH (of)MOST-IMPORTANT
 (of)MOMENTS/FEATURES (of)(to/for)PRE-HISTORY (of)MATHEMATICAL (of)ANALYSIS AND/EVEN/TOO/---
 (to)CHARACTERIZE (of)SERVICE(S) (of)TWO (of)GREAT (of)MATHEMATICIANS NYUTONA AND/EVEN/TOO/---
 LEYBNITSA, (of)HAVING-CONCLUDED (of)WORK(S) (of)OWN (of)PREDECESSORS (by/with/as)CREATION (IS)-
 REAL/ACTIVE(LY) (of)NEW (of)CALCULATION/CALCULUS(S).
6. IN/TO/AT/ON/OF/LIKE OUR EXPOSITION/ACCOUNT WE (WE)SHALL(BE) (to)BE-GUIDED ALREADY//(IS/ARE)-
 MORE-NARROW(LY) (by/with/as)CONTEMPORARY (by/with/as)REQUIREMENTS/REQUESTS TO(WARD)/FOR (of)(to/-
 for)STRICTNESS/SEVERITY(S), BUT/AND NOT (by/with/as)HISTORY/STORY (of)QUESTION.
7. HOWEVER, IN-THE-CAPACITY (of)INTRODUCTION IN/TO/AT/ON/OF/LIKE DIFFERENTIAL *DIFFERENTIAL-CALCUL-
 US, WE (LET-US)(WE-SHALL)CONSIDER/OBSERVE IN/TO/AT/ON/OF/LIKE PRESENT/REAL NUMBER/TRICK PROB-
 LEM ABOUT/AGAINST/WITH (of)(to/for)SPEED(S), BUT/AND IN/TO/AT/ON/OF/LIKE CLOSEST NUMBER/TRICK
 -- PROBLEM ABOUT/AGAINST/WITH (of)(to/for)(by/with/as)TOUCHING/TANGENT₁ BOTH (of)PROBLEM(S)
 HISTORICALLY (THEY)TURNED-OUT-TO-BE (by/with/as)TIED/CONNECTED/KNITTED WITH/FROM/ABOUT (by/with/-
 as)FORMATION (of)BASIC (of)CONCEPT/IDEA(S) (of)DIFFERENTIAL *DIFFERENTIAL-CALCULUS, SUBSEQUENTLY
 (of)HAVING-GOTTEN NAME (of)(to/for)(by/with/as)DERIVATIVE.
8. (LET-US)(WE-SHALL)BEGIN WITH/FROM/ABOUT (of)PRIVATE/PARTICULAR/QUOTIENT₁/PARTIAL₁ (of)EXAMPLE,
 NAMELY/JUST/EXACTLY, (LET-US)(WE-SHALL)CONSIDER/OBSERVE FREE FALL/INCIDENCE₂/DIP₇₃ (IN/TO/AT/-
 ON/OF/LIKE (to/for)EMPTINESS/VACUUM/CAVITY/BLOWHOLE₉₅ -- (IN-ORDER)(THAT) NOT (to)CONSIDER/COUNT/-
 DISCOUNT₆₇ (of)RESISTANCE(S) (of)AIR) (of)(to/for)(by/with/as)DIFFICULT/HEAVY/SERIOUS (of)(to/-
 for)(by/with/as)MATERIAL (of)POINT/PERIOD/SHARPENING(S).
9. IF TIME/TENSE₆₂ T (SEC.) IS-COUNTED FROM/OF/FOR BEGAN/(of)BEGINNING/PRINCIPLE(S) (of)-
 FALL/INCIDENCE₂/DIP₇₃(S), THAT/THEN/OR PASSED BEHIND/BEYOND/FOR/AFTER/IN/AT/--- THIS TIME/TENSE₆₂
 WAY/PASSAGE/JOURNEY/TRACK₉₃ S(M) , ON/BY/ALONG/FOR/IN/--- (of)(to/for)(by/with/as)(WELL)KNOWN//

CERTAIN (to/for)FORMULA, (WILL-BE) (IS)EXPRESSED//(WILL)EXPRESS/SELF(S) SO:

$$s = \frac{GT^2}{2}, \quad \text{WHERE } G = 9.81.$$

10. PROCEEDING/--- FROM-HERE, IS-REQUIRED (to)DEFINE/DETERMINE/ASSIGN SPEED (of)MOTION/MOVEMENT(S) (of)POINT/PERIOD/SHARPENING(S) IN/TO/AT/ON/OF/LIKE GIVEN MOMENT/FEATURE T, WHEN POINT/PERIOD/-SHARPENING IS(FOUND)/--- IN/TO/AT/ON/OF/LIKE POSITION/CONDITION/THESIS/REGULATION M (Diag. 31).
11. (LET-US)(WE-SHALL)ADD/ATTACH (of)(to/for)(by/with/as)VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ T CERTAIN/-SOME INCREMENT ΔT AND/EVEN/TOO/--- (LET-US)(WE-SHALL)CONSIDER/OBSERVE MOMENT/FEATURE T + ΔT , WHEN POINT/PERIOD/SHARPENING WILL(BE)//ENOUGH IN/TO/AT/ON/OF/LIKE POSITION/CONDITION/THESIS/REGULATIONS M_1 .
12. INCREMENT M_1 (of)(to/for)WAY/PASSAGE/JOURNEY/TRACK₉₃(S) BEHIND/BEYOND/FOR/AFTER/IN/AT/--- INTERVAL (of)(to/for)TIME/TENSE₆₂ ΔT (LET-US)(WE-SHALL)DESIGNATE OVER/THROUGH/WITHIN/EVERY(OTHER) ΔS .

3 -- ДИФФЕРЕНЦИАЛЬНОЕ ИСЧИСЛЕНИЕ, pp. 128-130

1. 55. INCREMENT.
2. SHOWN/POINTED SYSTEMATIC APPRAISAL (of)CHANGE(S) (of)MAGNITUDE/QUANTITY(S) (of)(to/for)FUNCTION-(S), (of)HAPPENING/COMING-FROM AS-RESULT//ON/BY/WITH/REASON/CAUSE (of)CHANGE(S) (of)MAGNITUDE/-QUANTITY(S) (of)ARGUMENT; IS ATTAINED/REACHED (of)(to/for)(by/with/as)COMPARATIVE (by/with/as)-APPRAISAL (of)INCREMENTS (of)(to/for)FUNCTION(S) AND/EVEN/TOO/--- (of)ARGUMENT.
3. IN-GENERAL (by/with/as)INCREMENT (of)(to/for)(by/with/as)SOME/ANY (of)(to/for)(by/with/as)VARIABLE/-ALTERNATING₈₃/REVERSIBLE₉₁ *(of)VARIABLE-QUANTITY, (of)(to/for)(by/with/as)GOING-OVER/CHANGING FROM/-OF/FOR (of)FORMER (of)NUMERICAL *(of)NUMERICAL-VALUE TO(WARD)/FOR (to/for)NEW, IS CALLED/NAMED THAT ADDITION/INCREASE/(of)ADDITIONS/INCREASES, WHICH (IT)(IS)NECESSARY//OVER (to)ADD/ATTACH TO-(WARD)/FOR (of)(to/for)(by/with/as)HERS/ITS//HER/IT (to/for)FORMER (to/for)SIGNIFICANCE/VALUE₁.
4. (THAT)MEANS, INCREMENT (of)(to/for)(by/with/as)VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ *(of)VARIABLE-QUANTITY IS/ARE/(to)EAT (IS)SIMPLE/ELEMENTARY₃(LY) VARIETY/DIFFERENCE₁ BETWEEN/AMONG (to/for)-(by/with/as)NEW (by/with/as)SIGNIFICANCE/VALUE₁ AND/EVEN/TOO/--- (to/for)(by/with/as)FORMER, (BEING)GOTTEN (by/with/as)SUBTRACTION (of)FORMER (of)SIGNIFICANCE/VALUE₁(S) OUT/FROM (of)NEW.
5. INCREMENT (of)(to/for)(by/with/as)VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ *(of)VARIABLE-QUANTITY X IS-DESIGNATED (by/with/as)SYMBOL ΔX , SO-THAT IF FORMER SIGNIFICANCE/VALUE₁ (of)(to/for)-(by/with/as)THIS (of)(to/for)(by/with/as)VARIABLE/ALTERNATING₈₃/REVERSIBLE *(of)VARIABLE-QUANTITY (IS)DESIGNATED (by/with/as)LETTER X, THAT/THEN/OR NEW (GROWN/INCREASED) (of)(to/for)(by/-with/as)HER(S)/ITS//HER/IT SIGNIFICANCE/VALUE₁ WILL(BE)//ENOUGH $X + \Delta X$.
6. SYMBOL ΔX IS-PRONOUNCED "DELTA X".
7. (WE)LET-KNOW-BEFORE/PREVENT/ANTICIPATE (of)STUDENT/STUDYING, THAT/WHAT/WHICH SYMBOL THIS IN-NO-WAY IT-IS-IMPOSSIBLE (to)READ "DELTA MULTIPLIED ON/IN/AT/TO/FOR/BY/WITH X" OR "DELTA ONCE/TIME(S) X", BECAUSE LETTER Δ (IS)INSEPARABLE FROM/OF/FOR (of)LETTER(S) X, WITHOUT (of)(to for)(by with as)WHICH SHE/IT NOT HAS (of)NO (of)MEANING; STUDENT/STUDYING ALREADY//-(IS/ARE)MORE-NARROW(LY) (by/with/as)SIGN/(IS)FAMILIAR WITH/FROM/ABOUT (to/for)(by/with/as)ANALOGOUS (by/with/as)APPEARANCE/PHENOMENON/SYMPOM₅₃ IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)ELEMENTARY/-RUDIMENTARY (to/for)ALGEBRA, WHERE lg A HAS DEFINITE NUMERICAL MEANING, DESIGNATING LOGARITHM (of)NUMBER/DATE(S) A, WHEREAS (of)LETTER(S) 1 AND/EVEN/TOO/--- g TORN-OFF FROM/OF/FOR (of)LETTER(S) A, NOT (THEY)HAVE SEPARATELY (of)NO (of)NUMERICAL (of)MEANING.
8. (IT)(IS)EVIDENT(LY), THAT/WHAT/WHICH INCREMENT (of)(to/for)(by/with/as)VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ *(of)VARIABLE-QUANTITY AT-ALL/COMPLETELY (IT)(IS)NONOBLIGATORY(LY) (IS)POSITIVE(LY): IT WILL(BE)//ENOUGH (to/for)(by/with/as)NEGATIVE, WHEN NEW SIGNIFICANCE/VALUE₁ (IS/ARE)SMALL-

ER/LESS (of) FORMER; THIS WILL(BE)//ENOUGH, FOR-EXAMPLE, WHEN (of)(to/for)(by/with/as) VARIABLE/-
ALTERNATING₈₃/REVERSIBLE₉₁ *(of) VARIABLE-QUANTITY DIMINISHES/LEAVES.

9. (to/for)(by/with/as) ANALOGOUS *ANALOGICALLY Δy SIGNIFIES INCREMENT y , Δz SIGNIFIES INCREMENT z , $\Delta \phi$ SIGNIFIES INCREMENT (of) VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ ϕ , $\Delta f(x)$ SIGNIFIES INCREMENT (of)(to/for) FUNCTION(S) $f(x)$ AND-SO-FORTH.
10. IF IN/TO/AT/ON/OF/LIKE EQUALITY/EQUATION $y = f(x)$ NON-DEPENDENT VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ x (WILL) GET(S) INCREMENT Δx , THAT/THEN/OR UNDER/NEAR/LIKE/HEARTH-BOTTOM Δy ALWAYS (THEY) UNDERSTAND CORRESPONDING INCREMENT (of)(to/for) FUNCTION(S) $f(x)$, THAT-IS INCREMENT (of) DEPENDENT (of) VARIABLE/ALTERNATING₈₃/REVERSIBLE₉₁ y .
11. IT-IS-NECESSARY/FOLLOWS INCREMENT Δy (to) COUNT ALWAYS FROM/OF/FOR (of) DEFINITE (of) INITIAL/-ELEMENTARY *(of) INITIAL-VALUE y , (of) CORRESPONDING (to/for) THAT/VOLUME (IS) ARBITRARY(LY) (to/for) TAKEN (to/for) INITIAL/ELEMENTARY *(to/for) INITIAL-VALUE x , FROM/OF/FOR (of) WHICH IS-COUNTED INCREMENT Δx .
12. (LET-US)(WE-SHALL) CONSIDER/OBSERVE, FOR-EXAMPLE, FUNCTION $y = x^2$.
13. HAVING-TAKEN BEHIND/BEYOND/FOR/AFTER/IN/AT/--- INITIAL/ELEMENTARY *INITIAL-VALUE $x = 10$, (WE)-GET INITIAL/ELEMENTARY *INITIAL-VALUE $y = 100$.
14. LET/ALTHOUGH x (IS) INCREASED/MAGNIFIED (UP) TO/BEFORE $x = 12$, THAT-IS $\Delta x = 2$; THEN y INCREASED (UP) TO/BEFORE $y = 144$, (THAT) MEANS $\Delta y = 144 - 100 = 44$.
15. LET/ALTHOUGH x (IS) DECREASED (UP) TO/BEFORE $x = 9$, THAT-IS $\Delta x = -1$; THEN DIMINISHED/-LEFT (UP) TO/BEFORE $y = 81$, CONSEQUENTLY, $\Delta y = 81 - 100 = -19$.
16. IN-GENERAL, IF FUNCTION $y = f(x)$ INCREASING, HOW/AS/BUT, FOR-EXAMPLE, OUR(S) x^2 IN/TO/AT/ON/OF/LIKE INTERVAL $0 < x < \infty$, THAN/THEN/OR (IT) (IS) CLEAR(LY), THAT/WHAT/SOMETHING IF Δx (IS) POSITIVE(LY), THAT/THEN/OR AND/EVEN/TOO/--- Δy WILL(BE)//ENOUGH (to/for)(by/with/as) POSITIVE, AND/EVEN/TOO/--- IF Δx (IS) NEGATIVE(LY) THAT/THEN/OR AND/EVEN/TOO/--- Δy ALSO WILL(BE)//ENOUGH (to/for)(by/with/as) NEGATIVE.
17. (THAT) MEANS, BOTH (of) INCREMENT(S), Δx AND/EVEN/TOO/--- Δy , IN-THIS-CASE (THEY) HAVE ALWAYS EQUAL/IDENTICAL SIGNS.
18. IF HOWEVER/THEN/ALSO FUNCTION $y = f(x)$ DIMINISHING/LEAVING, THAN/THEN/OR (to/for) POSITIVE Δx ANSWERS (IT) (IS) EVIDENT(LY), (IS) NEGATIVE(LY) Δy , BECAUSE NEW SIGNIFICANCE/VALUE₁ y (IS/ARE) SMALLER//LESS (of) FORMER, (to/for) NEGATIVE Δx ANSWERS ALREADY/(IS/ARE) MORE-NARROW (LY) POSITIVE Δy , FOR NOW NEW SIGNIFICANCE/VALUE₁ (of)(to/for) FUNCTION(S) MORE/(IS/ARE)-BIGGER (of) FORMER.
19. (THAT) MEANS, Δx AND/EVEN/TOO/--- Δy IN-THIS-CASE ALWAYS (THEY) WILL(BE) (of) OPPOSITE/-OPPOSED (of) SIGNS.

4 -- ТЕОРИЯ ОШИБОК И СПОСОБ НАИМЕНЬШИХ КВАДРАТОВ, pp. 23-24

1. (of) ERROR(S) (of) LOGARITHMS (of) TRIGONOMETRIC (of) FUNCTIONS.
2. IF AT/WITH/BEFORE/IN-TIME-OF CALCULATION M_{lg} ARISES QUESTION ABOUT/AGAINST/WITH FINDING/-LOCATION (of) ERROR(S) (of) LOGARITHM (of)(to/for) TRIGONOMETRIC-FUNCTION, THAT/THEN/OR (IT) (IS)-NECESSARY//OVER (to) PROCEED/--- OUT/FROM (of) FOLLOWING (of) CONSIDERATIONS: TABULAR (of)(to/for) VARIETY/DIFFERENCE₁(S) (of) LOGARITHMS (of) TRIGONOMETRIC (of) FUNCTIONS MUST/SHOULD/OWE (to)-BE CONSIDERED/OBSERVED HOW/AS/BUT (of) ERROR(S) (of) LOGARITHMS (of) TRIGONOMETRIC (of) FUNCTIONS, CAUSED/CALLED (by/with/as) ERRORS IN/TO/AT/ON/OF/LIKE ONE/ALONE UNIT/ONE IN/TO/AT/ON/OF/LIKE ARGUMENTS (IN/TO/AT/ON/OF/LIKE 1' IN/TO/AT/ON/OF/LIKE (of) FIVE-UNIT TABLES (of) LOGARITHMS PRZHEVALSKOGO AND/EVEN/TOO/--- IN/TO/AT/ON/OF/LIKE 10" (of) SIX-UNIT AND/EVEN/TOO/--- VEGA).
3. THEREFORE, KNOWING ERROR (of) ARGUMENT, (IT) IS LIGHT/EASY(LY) (to) CALCULATE ERROR (of) LOGA-

RITHM (of)(to/for)TRIGONOMETRIC-FUNCTION ON/BY/ALONG/FOR/ON/--- (to/for)FORMULA: M_{1g} TRIGON. (of)(to/for)FUNCTION(S) = M (of)ARGUMENT d_{1g} TRIGON. (of)(to/for)FUNCTION(S), WHEREIN (of)-ERROR(S) (of)ARGUMENTS MUST/SHOULD/OWE (to)BE (ARE)EXPRESSED IN/TO/AT/ON/OF/LIKE UNITS/ONES, (of)EQUAL (to/for)INTERVAL (of)TABLES (of)LOGARITHMS (of)TRIGONOMETRIC (of)FUNCTIONS (IN/TO/AT/ON/OF/LIKE MINUTES AT/WITH/BEFORE/IN-TIME-OF USE/USUFRUCT₆₈ (by/with/as)FIVE-UNIT (by/with/as)TABLES, IN/TO/AT/ON/OF/LIKE DECA- -SECONDS AT/WITH/BEFORE/IN-TIME-OF USE/USUFRUCT₆₈ (by/with/as)SIX-UNIT AND/EVEN/TOO/--- (by/with/as)SEVEN-UNIT (by/with/as)TABLES) THAT-IS

$$M_{1g} \text{ TRIGON. (of)(to/for)FUNCTION(S) } [L_5] = d \left[\frac{L_5}{\text{Min.}} \right] M_{so} [\text{Min}] ;$$

$$M_{1g} \text{ TRIGON. (of)(to/for)FUNCTION(S) } [L_6] = d \left[\frac{L_6}{\text{Decasec.}} \right] M_{so} [(\text{of})\text{Decasecond(s)}] ;$$

$$M_{1g} \text{ TRIGON. (of)(to/for)FUNCTION(S) } [L_7] = d \left[\frac{L_7}{\text{Decasec.}} \right] M_{so} [(\text{of})\text{Decasecond(s)}] ;$$

4. (of)NOTE(S): IF FUNCTION, ERROR (of)(to/for)(by/with/as)WHICH US INTERESTS (RE)PRESENTS/-IMAGINES *REPRESENTS SUM OR VARIETY/DIFFERENCE₁ (of)SEVERAL (of)COMPONENTS/(BEING)MADE-UP/-TAKEN/ADDED₁, EACH OUT/FROM (of)WHICH IS/APPEARS (by/with/as)FUNCTION (of)COMPLEX/COMPOUND (of)VIEW/SHAPE/SPECIES₄/ASPECT₆₂, THAT/THEN/OR, BEING-GUIDED (to/for)(by/with/as)LOGARITHMIC (by/with/as)METHOD, (ONE)MUST (to)CALCULATE MIDDLE/AVERAGE/MEAN₁/NEUTRAL₃/NEUTER₆₂ (of)ERROR(S) (of)SEPARATE/INDIVIDUAL (of)COMPONENTS/(BEING)MADE-UP/TAKEN/ADDED₁ AND/EVEN/TOO/--- TO(WARD)/FOR HIM/-IT/THEM (to)USE THEOREM ABOUT/AGAINST/WITH (of)(to/for)(by/with/as)MIDDLE/AVERAGE/MEAN₁/NEUTRAL₃/NEUTER₆₂ (to/for)ERROR (of)SUM(S) OR VARIETY/DIFFERENCE₁.
5. TABULAR (of)(to/for)VARIETY/DIFFERENCE₁ (of)NATURAL/IN-KIND *(of)NATURAL-VALUES (of)TRIGONOMETRIC (of)FUNCTIONS MUST/SHOULD/OWE (to)BE CONSIDERED/OBSERVED HOW/AS/BUT (of)ERROR(S) (of)NATURAL/IN-KIND *(of)NATURAL-VALUES (of)TRIGONOMETRIC (of)FUNCTIONS, CAUSED/CALLED (by/with/as)ERRORS IN/TO/AT/ON/OF/LIKE ONE/ALONE UNIT/ONE IN/TO/AT/ON/OF/LIKE ARGUMENTS IN/TO/AT/ON/OF/LIKE 10" [IN/TO/AT/ON/OF/LIKE (of)SIX-UNIT (PETERSA) AND/EVEN/TOO/--- (of)SEVEN-UNIT (IORDANA) TABLES (of)TRIGONOMETRIC (of)FUNCTIONS] .
6. THEREFORE, KNOWING ERROR (of)ARGUMENT, (IT)IS LIGHT/EASY(LY) (to)CALCULATE ERROR (of)-NATURAL/IN-KIND *(of)NATURAL-VALUE (of)(to/for)TRIGONOMETRIC-FUNCTION ON/BY/ALONG/FOR/IN/--- (to/for)FORMULA, M TRIGON. (of)(to/for)FUNCTION(S) M (of)ARGUMENT d TRIGON. (of)(to/for)FUNCTION(S), WHEREIN (of)ERROR(S) (of)ARGUMENTS MUST/SHOULD/OWE (to)BE (ARE)EXPRESSED IN/TO/AT/ON/OF/LIKE UNITS/ONES, (of)EQUAL (to/for)INTERVAL (of)TABLES (of)TRIGONOMETRIC (of)FUNCTIONS (IN/TO/AT/ON/OF/LIKE DECA- -SECONDS AT/WITH/BEFORE/IN-TIME-OF (of)SIX-UNIT AND/EVEN/TOO/--- (of)SEVEN-UNIT TABLES).
7. RELATIVE (of)ERROR(S).
8. RELATIVE (of)ERROR(S) ALWAYS (THEY)ARE-EXPRESSED/EXPRESS-SELVES (by/with/as)DIVERTED/ABSTRACTED *(by/with/as)ABSTRACT-NUMBERS, WHEREIN THESE (of)NUMBER/DATE(S) (IS)COMMON(LY) (THEY)ARE PRESENTED/REPRESENTED/(THEY)SEEM-TO-BE (by/with/as)SHOT/FRACTION/TRILL/ROLL WITH/FROM/ABOUT (by/with/as)NUMERATOR UNIT/ONE.
9. VERY (IS)FREQUENT/RHICK/RAPID(LY) QUALITY (of)(to/for)(by/with/as)ONE-OR-ANOTHER (of)MAGNITUDE/-QUANTITY(S) (IS/ARE)MORE FULL/STOUT/COMPLETE(LY) IS-CHARACTERIZED NAMELY/JUST/EXACTLY (of)(to/for)(by/with/as)RELATIVE *(by/with/as)RELATIVE-ERROR, (of)(to/for)(by/with/as)EQUAL (to/for)PRIVATE/-PARTICULAR/QUOTIENT₁/PARTIAL₁ FROM/OF/FOR (of)DIVISION(S) (of)(to/for)(by/with/as)ABSOLUTE (FOR-EXAMPLE, (of)(to/for)(by/with/as)MIDDLE/AVERAGE/MEAN₁/NEUTRAL₃/NEUTER₆₂) (of)ERROR(S) (of)(to/for)(by/with/as)MEASURED (of)MAGNITUDE/QUANTITY(S), ON/IN/AT/TO/FOR/BY/WITH NUMERICAL SIGNIFICANCE/VALUE₁ (of)(to/for)(by/with/as)SELF/THE VERY/MOST (of)MAGNITUDE/QUANTITY(S), WHEREIN DIMENSION/MAGNITUDE (of)NUMERATOR AND/EVEN/TOO/--- (of)DENOMINATOR MUST/SHOULD/OWE(S) (to)BE (of)-

- (to/for)(by/with/as)EQUAL/IDENTICAL.
10. (LET-US)(WE-SHALL/NOTE THAT/WHAT/WHICH AT/WITH/BEFORE/IN-TIME-OF (to/for)APPRAISAL (of)(to/for)-ACCURACY (of)CORNER/ANGULAR *(of)ANGULAR-MEASUREMENTS NOT (IT)(IS)TAKEN/RECEIVED (to)CALCULATE RELATIVE (of)ERROR(S) (of)CORNERS/ANGLES, SINCE ERROR (of)MEASUREMENT(S) (of)CORNER/ANGLE NOT DEPENDS-ON (of)MAGNITUDE/QUANTITY(S) (of)CORNER/ANGLE.
 11. (IS)CUSTOMARY/ORDINARY(LY) (IS)TAKEN/RECEIVED (to)DIVIDE MAGNITUDE/QUANTITY (of)(to/for)(by/with/-as)CORNER/ANGULAR (of)ERROR(S) ON/IN/AT/TO/FOR/BY/WITH MAGNITUDE/QUANTITY (of)CONSTANT/PERMANENT/-DIRECT₈₃ (of)CORNER/ANGLE, (of)EQUAL (to/for)RADIAN, AND/EVEN/TOO/--- (to)GET IN-THIS-WAY CORNER/ANGULAR ERROR IN-THE-FORM//IN/AT/ON VIEW/SPECIES₄/ASPECT₆₂ (of)DIVERTED/ABSTRACTED *(of)-ABSTRACT-NUMBER, WHICH SHOWS/POINTS, IN/TO/AT/ON/OF/LIKE HOW/AS MUCH/MANY ONCE/TIME(S) CORNER/-ANGULAR ERROR (IS/ARE)SMALLER/LESS (of)RADIAN.
 12. SUCH (RE)PRESENTATION/IDEA GIVES/ALLOWS EXPRESSION (of)(to/for)(by/with/as)CORNER/ANGULAR (of)-ERROR(S) IN/TO/AT/ON/OF/LIKE RADIAN(S).
 13. CORNER/ANGULAR ERROR, EXPRESSED IN/TO/AT/ON/OF/LIKE RADIAN(S), CAN (to)BE CONSIDERED/OBSERVED HOW/AS/BUT CROSS/TRANSVERSE RELATIVE ERROR, WHICH NOT DEPENDS-ON (of)LENGTH(S) (of)(to/-for)LINE(S).
 14. THEN RELATIVE ERROR (of)LENGTH(S) (of)(to/for)LINE(S) MUST/SHOULD/OWE(S) (to)BE (IS)NAMED/-CALLED (of)(to/for)(by/with/as)LONGITUDINAL/LENGTHWISE (of)(to/for)(by/with/as)RELATIVE *(by/with/-as)RELATIVE-ERROR.
 15. CALCULATION (of)LONGITUDINAL/LENGTHWISE AND/EVEN/TOO/--- (of)CROSS/TRANSVERSE (of)RELATIVE (of)-ERRORS GIVES/ALLOWS POSSIBILITY (to)COMPARE ACCURACY (of)SINGLE (of)CORNER/ANGULAR AND/-EVEN/TOO/--- (of)LINEAR/LINE₉₆ (of)LINEAR-MEASUREMENTS FROM-THE-POINT-OF-VIEW (of)MAGNITUDE/-QUANTITY(S) (of)ERROR(S) (of)POSITION/CONDITION/THESIS/REGULATION(S) (of)(to/for)(by/with/as)FINAL/-FINITE (of)POINT/PERIOD/SHARPENING(S) (of)(to/for)LINE(S).

5 -- ТЕОРИЯ ДВИЖЕНИЯ ЖИДКОСТЕЙ И ГАЗОВ В НЕДЕФОРМИРУЕМОЙ ПОРИСТОЙ СРЕДЕ, pp. 145-6

1. FLAT *FLAT -- ESTABLISHING/INSTALLING/PLACING *PLANE-STEADY-FILTRATION (of)(to/for)(by/with/as)-DIFFICULT/HEAVY/SERIOUS (of)(to/for)(by/with/as)INCOMPRESSIBLE (of)(to/for)LIQUID(S).
2. §38. CONCEPT/IDEA ABOUT/AGAINST/WITH (of)(to/for)PLANE-FILTRATION.
3. FILTRATION IS CALLED/NAMED (of)(to/for)(by/with/as)FLAT, IF ALL (of)PARTICLE(S) (of)(to/for)- (by/with/as)FILTERING (of)(to/for)LIQUID(S) (THEY)ARE MOVED/SHIFTED IN/TO/AT/ON/OF/LIKE PLANES/-FLATNESSES, (of)PARALLEL (of)(to/for)(by/with/as)CERTAIN/SOME (of)(to/for)(by/with/as)IMMOBILE/INACTIVE (of)(to/for)PLANE/FLATNESS(S), WHEREIN CHARACTER (of)MOTION/MOVEMENT(S) (of)PARTICLES (of)(to/for)LIQUID(S), (of)BELONGING (of)(to/for)(by/with/as)DIRECT/S/STRAIGHT(LINE)/RIGHT₁₂, (of)- (to/for)(by/with/as)PERPENDICULAR TO(WARD)/FOR (of)(to/for)(by/with/as)THIS (of)(to/for)PLANE/-FLATNESS(S), (IS)EQUAL/IDENTICAL.
4. THEREFORE AT/WITH/BEFORE/IN-TIME-OF STUDY (of)(to/for)(by/with/as)FLAT *(of)(to/for)PLANE-STEADY-INFILTRATION (IT)(IS)SUFFICIENT(LY) (to)BE-LIMITED/LIMIT-SELF (by/with/as)CONSIDERATION (of)MO-TION/MOVEMENT(S) (of)(to/for)LIQUID(S) IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)ONE/ALONE OUT/-FROM (of)SHOWN/POINTED (IS/ARE)HIGHER/TALLER//BEFORE (of)PLANES/FLATNESSES, (of)(to/for)(by/with/-as)(BEING)CALLED/NAMED LATER-ON/IN-FURTHER (by/with/as)PLANE/FLATNESS (of)(to/for)FILTRATION(S).
5. THEN (BEING)CONSIDERED/OBSERVED AREA/OBLAST (of)(to/for)FILTRATION(S) WILL(BE)//ENOUGH (of)- (to/for)(by/with/as)FLAT.
6. SPEED (of)(to/for)FILTRATION(S) IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)ANY (to/for)POINT/-PERIOD/SHARPENING (of)(to/for)AREA/OBLAST(S) (of)(to/for)FILTRATION(S) WILL(BE)//ENOUGH (to)LIE IN/TO/AT/ON/OF/LIKE (of)(to/for)PLANE/FLATNESS(S) (of)(to/for)FILTRATION(S) AND/EVEN/TOO/---, CON-

- SEQUENTLY, WILL(BE)//ENOUGH (to)HAVE ONLY TWO MAKING-UP/PUTTING/COMPONENTS ON/BY/ALONG/FOR/IN (to/for)AXES/AXLES (of)COORDINATES (of)(to/for)(by/with/as)THIS (of)(to/for)PLANE/FLATNESS.
7. SHOWN/POINTED MAKING-UP/PUTTING/COMPONENTS, HOW/AS/BUT AND/EVEN/TOO/--- OTHER (of)CHARACTERIS- TIC/DESCRIPTION/RATING₈₃/PERFORMANCE₉₁(S) (of)FILTRATION (of)TORRENT/STREAM/FLOW (PRESSURE, PRESSURE AND-SO-FORTH) (THEY)WILL(BE) (by/with/as)FUNCTIONS (of)TWO (of)COORDINATES (of)- POINTS/PERIODS/SHARPENINGS (of)(to/for)AREA/OBLAST(S) (of)(to/for)FILTRATION(S) AND/EVEN/TOO/--- (of)(to/for)TIME/TENSE₆₂¹ 1). LAST/LATTER-- IN/TO/AT/ON/OF/LIKE CASE/CHANCE/OCCURRENCE (of)- (to/for)(by/with/as)NON-STEADY (of)(to/for)FILTRATION(S).
 8. IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)PRESENT/REAL (to/for)CHAPTER/HEAD IS CONSIDERED/OBSERVED ONE/ALONE VIEW/SHAPE/SPECIES₄/ASPECT₆₂ (of)(to/for)(by/with/as)FLAT *FLAT -- ESTABLISHING/INSTALL- ING/PLACING *PLANE-STEADY-FILTRATION(S) (of)(to/for)(by/with/as)DIFFICULT/HEAVY/SERIOUS (of)(to/for)- (by/with/as)INCOMPRESSIBLE/NON-CONTRACTIBLE (of)(to/for)LIQUID(S), WHEN PLANE/FLATNESS (of)(to/- for)FILTRATION(S) WILL(BE) (of)(to/for)(by/with/as)VERTICAL.
 9. (of)(to/for)(by/with/as)(AN)OTHER VIEW/SHAPE/SPECIES₄/ASPECT₆₂ (of)(to/for)(by/with/as)FLAT *FLAT -- ESTABLISHING/INSTALLING/PLACING *(of)(to/for)PLANE-STEADY/FILTRATION(S), -- WHEN (by/with/as)- PLANE/FLATNESS (of)(to/for)FILTRATION(S) WILL(BE) HORIZONTAL PLANE/FLATNESS, -- (IS)CONSIDER- ED/OBSERVED (IS/ARE)LOWER/SHORTER/BELOW, IN/TO/AT/ON/OF/LIKE (to/for)CHAPTER/HEAD (9).
 10. FLAT *FLAT -- ESTABLISHING/INSTALLING/PLACING *PLANE-STEADY/FILTRATION (of)(to/for)(by/with/as)- DIFFICULT/HEAVY/SERIOUS (of)(to/for)(by/with/as)INCOMPRESSIBLE/NON-CONTRACTIBLE (of)(to/for)LIQUID(S) (IN/TO/AT/ON/OF/LIKE CASE/CHANCE/OCCURRENCE (of)(to/for)(by/with/as)VERTICAL (of)(to/for)PLANE/- FLATNESS(S) (of)(to/for)FILTRATION(S)) HAS VERY BIG SIGNIFICANCE/VALUE₁ IN/TO/AT/ON/OF/LIKE (to/for)HYDROTECHNICS.
 11. IN/AT/ON -- MANY *IN-MANY-CASES (of)(to/for)FILTRATION(S) IN/TO/AT/ON OF/LIKE FOUNDATIONS/BASES (of)MASSIVE (of)HYDROTECHNICAL (of)BUILDINGS, (of)(to/for)FILTRATION(S) OVER/THROUGH/WITHIN/- EVERY(OTHER) BODY AND/EVEN/TOO/--- FOUNDATION/BASE (of)EARTH (of)DAMS, (of)(to/for)FILTRA- TION(S) OUT/FROM (of)RIVERS, (of)CANALS/CHANNELS/DUCTS/BORES₉₇ AND/EVEN/TOO/--- (of)WATER- RESERVOIRS, (of)(to/for)FILTRATION(S) TO(WARD)/FOR (to/for)(by/with/as)BUILDING/CONSTRUCTION (to/- for)PITS AND/EVEN/TOO/--- (to/for)(by/with/as)HORIZONTAL (to/for)DRAINS AND-SO-FORTH FILTRATION TORRENT/STREAM/FLOW CAN (to)BE (IS)TAKEN/RECEIVED (to/for)(by/with/as)FLAT.
 12. EVEN IN-THOSE-CASES, WHEN FILTRATION TORRENT/STREAM/FLOW HAS SPATIAL CHARACTER, BY-MEANS// (by/with/as)WAY/PASSAGE/JOURNEY/TRACK₉₃ (of)(to/for)(by/with/as)REASONABLE (of)(to/for)SCHEMATIZATION- (S), (of)(to/for)(by/with/as)BRINGING/CITING/REDUCING₁ TO(WARD)/FOR (to/for)ACCEPTABLE (to/for)- SUPPLY/RESERVE IN/TO/AT/ON/OF/LIKE CALCULATION/DISMISSALS, (of)(to/for)(by/with/as)HIS/ITS//HIM/IT IT-IS-POSSIBLE (to)REPLACE (to/for)(by/with/as)FLAT (by/with/as)TORRENT/STREAM/FLOW, EVEN(IF) IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)CERTAIN/SOME (of)(to/for)PART/DEPARTMENT/FATE/UNIT₉₇(S).
 13. LAST/LATTER CIRCUMSTANCE ACQUIRES SEPARATE/SPECIAL SIGNIFICANCE/VALUE₁, BECAUSE (UP)TO/BEFORE (of)PRESENT/REAL (of)(to/for)TIME/TENSE₆₂ WE NOT (WE)HAVE (of)SOME/ANY (of)THEORETICAL (of)- METHODS (of)INVESTIGATION(S) (of)(to/for)(by/with/as)SPATIAL (of)(to/for)FILTRATION(S).
 14. INVESTIGATION (of)SPATIAL (of)TORRENTS/STREAMS/FLOWS (IT)TURNS-OUT-TO-BE//IS EXERTED/GIVEN (to/- for)(by/with/as)POSSIBLE ONLY/AS-SOON-AS WITH-HELP (of)METHOD EGDA (SEE/CM. CHAPTER/HEAD 12).
 15. SUCH (of)INVESTIGATION(S) ARE CONDUCTED/INSTALLED/CARRIED-OUT/SPENT IN/TO/AT/ON/OF/LIKE (of)- SPECIAL LABORATORIES AND/EVEN/TOO/--- (THEY)REQUIRE (of)EXPENDITURE(S) (of)LARGE/IMPORTANT (of)MATERIAL (of)MEANS/REMEDIES₅₅, BUT/AND FOR-THAT-REASON (THEY)ARE-USED/ADAPT-SELVES ONLY AT/WITH/BEFORE/IN-TIME-OF PROJECTING/PLANNING SEPARATELY/ESPECIALLY (of)RESPONSIBLE/CRITICAL (of)BUILDINGS.

1. ABOUT/AGAINST/WITH ROLLING/SLIDING/RIDING (of) SPHERE/BALLOON ON/BY/ALONG/FOR/IN/--- (of) (to/for)- (by/with/as) HORIZONTAL *(of) (to/for) HORIZONTAL-SURFACE.
2. 1. INTRODUCTION.
3. PROBLEM ABOUT/AGAINST/WITH ROLLING/SLIDING RIDING (of) DIFFICULT/HEAVY/SERIOUS (of) SOLID/HARD/- FIRM (of) BODY(S) ON/BY/ALONG/FOR/IN/--- (of) (to/for) (by/with/as) HORIZONTAL *(of) (to/for) HORIZONTAL-SURFACE IN/TO/AT/ON/OF/LIKE PRESENT/REAL TIME/TENSE₆₂ (IS) SOLVED/ALLOWED/ABSOLVED₆₈ ONLY/- AS-SOON-AS IN/TO/AT/ON/OF/LIKE (of) FEW (of) PRIVATE/PARTICULAR/QUOTIENT₁/PARTIAL₁ CASES/CHANCES/- OCCURRENCES.
4. BESIDES (of) MADE-OUT/TAKEN-APART STILL/YET/MORE/ALSO EILEROM (of) CASE/CHANCE/OCCURRENCE, WHEN ROLLING/SLIDING BODY (IS) LIMITED (by/with/as) CYLINDRICAL (by/with/as) SURFACE, EXACT/PRECISE (of) (RE) SOLUTION/DECISION/DERIVATION₁(S) (ARE) (WELL) KNOWN/CERTAIN: FOR (of) HOMOGENEOUS (of)- SPHERE/BALLOON, FOR (of) ROUND (of) DISC, FOR (of) HETEROGENEOUS (of) SPHERE/BALLOON, CENTER-OF-GRAVITY (of) WHICH COINCIDES WITH/FROM/ABOUT (to/for) (by/with/as) GEOMETRIC (by/with/as)- CENTER/NUCLEUS₉₅, BUT/AND CENTRAL/CENTER ELLIPSOID (of) (to/for) INERTIA HAS (UNI) FORM (of)- SPHEROID; (to/for) US (IT) SUCCEEDED (to) SHOW/TESTIFY₆₈, THAT/WHAT/WHICH THIS PROBLEM IS BROUGHT/CITED/REDUCED₁ TO(WARD)/FOR (to/for) SQUARINGS/QUADRATURES AND/EVEN/TOO/--- IN-A-CASE- WHERE CENTER-OF-GRAVITY NOT COINCIDES WITH/FROM/ABOUT (to/for) (by/with/as) GEOMETRIC (by/- with/as) CENTER/NUCLEUS₉₅.
5. IN/TO/AT/ON/OF/LIKE (of) ALL (of) BROUGHT/CITED/REDUCED₁ CASES/CHANCES/OCCURRENCES (of) POINT/SPOT₉ *(of) POINT-CONTACT (of) MOVING/ADVANCING/(BEING) MOVED (of) BODY(S) TO(WARD)/FOR (of) (to/for) PLANE/- FLATNESS(S) (to/for) (by/with/as) NECESSARY (by/with/as) CONDITION (of) (RE) SOLUTION/DECISION/DERIVA- TION₁(S) WAS TAKEN/RECEIVED EQUALITY/EQUATION (of) TWO (of) MAIN (of) MOMENTS-OF-INERTIA.
6. HOW/AS MUCH/MANY WE (WE) KNOW, NOT/NEITHER ONE/ALONE PROBLEM ABOUT/AGAINST/WITH ROLLING/- SLIDING/RIDING (of) BODY(S), CENTRAL/CENTER ELLIPSOID (of) (to/for) INERTIA (of) WHICH HAS VIEW- SHAPE/SPECIES₄/ASPECT₆₂ (of) TRIAXIAL (of) ELLIPSOID, NOT WAS UP-TO-NOW (IS) SOLVED/DECIDED IN/TO/AT/ON/OF/LIKE (of) (to/for) (by/with/as) ALL (to/for) WIDTH/LATITUDE.
7. IN/TO/AT/ON/OF/LIKE (of) (to/for) (by/with/as) (BEING) OFFERED (to/for) ARTICLE WE (WE) SOLVE/DECIDE QUESTION-OF ROLLING/SLIDING/RIDING ON/BY/ALONG/FOR/IN/--- (of) (to/for) PLANE/FLATNESS(S) (of) SYM- METRICAL (of) SPHERE/BALLOON, WHEREIN NOT (WE) LAY(OFF)/IMPOSE (of) NO (of) CONSTRAINTS NOT/- NEITHER ON/IN/AT/TO/FOR/BY/WITH MAIN MOMENTS/FEATURES (of) (to/for) INERTIA, NOT/NEITHER ON/IN/- AT/TO/FOR/BY/WITH INITIAL/ELEMENTARY (of) CIRCUMSTANCE(S) (of) MOTION/MOVEMENT(S).
8. TO(WARD)/FOR (to/for) ANALYTIC (RE) SOLUTION/DECISION/DERIVATION₁ (of) (to/for) (by/with/as) THIS (of) PROBLEM(S) WE (WE) JOIN/ADD IN/TO/AT/ON/OF/LIKE END/WAY/LEAD₈₃ (of) WORK(S) CERTAIN/SOME GEOMETRIC (of) CONSIDERATION(S), IN/AT/ON -- CONSIDERABLE/SIGNIFICANT *TO-A-CONSIDERABLE-EXTENT CLARIFYING CHARACTER (of) MOTION/MOVEMENT(S) IN/TO/AT/ON/OF/LIKE GENERAL/COMMON/TOTAL CASE/- CHANCE/OCCURRENCE AND/EVEN/TOO/--- DRAWING/PAINTING FULL/STOUT/COMPLETE (of) (to/for) (by/with/as)- HIS/ITS/HIM/IT PICTURE AT/WITH/BEFORE/IN-TIME-OF (of) SEPARATE/SPECIAL (of) PRIVATE/PARTICULAR/- QUOTIENT₁/PARTIAL₁ ASSUMPTIONS.
9. SUCCESS (of) (RE) SOLUTION/DECISION/DERIVATION₁(S) IS DETERMINED/CONDITIONED (by/with/as) APPLICABILITY TO(WARD)/FOR (to/for) (BEING) CONSIDERED/OBSERVED (to/for) QUESTION (of) (to/for) (by/with/as) GENERALIZED (of) THEOREM(S) (of) SQUARES/AREAS/SPACES, ON-ACCOUNT-OF (of) (to/for) (by/with/as) WHICH MAIN MOM- ENT/FEATURE (of) QUANTITIES (of) MOTION/MOVEMENT(S) (of) OUT (of) SPHERE/BALLOON, BUILT FOR (of)- POINT/PERIOD/SHARPENING(S) *(of) POINT(S)-OF-CONTACT TO(WARD)/FOR (of) (to/for) PLANE/FLATNESS(S), MUST/SHOULD/OWE(S) (to) KEEP CONSTANT/PERMANENT/DIRECT₈₃ MAGNITUDE/QUANTITY AND/EVEN/TOO/--- CON- STANT/INVARIABLE DIRECTION IN/TO/AT/ON/OF/LIKE SPACE/AREA.
10. (by/with/as) THIS/(to/for) THESE (by/with/as) CIRCUMSTANCE WE (WE) MAKE-USE-OF/ENJOY AND/EVEN/TOO/---

AT/WITH/BEFORE/IN-TIME-OF MAKING-UP (of)SELVES (of)EQUALIZINGS/EQUATIONS₁ (of)MOTION/MOVEMENT(S).

7 -- ТЕОРИЯ АЛГЕБРАИЧЕСКИХ ФУНКЦИЙ, pp. 373-4

1. ALGEBRAIC (of)(to/for)FUNCTION(S) (of)MANY (of)INDEPENDENT *(of)INDEPENDENT-VARIABLES.
2. DIRECT GENERALIZATION (of)METHODS (of)(to/for)THEORY(S) (of)ALGEBRAIC (of)FUNCTIONS ON/IN/AT/-TO/FOR/BY/WITH (of)(to/for)FUNCTION(S) FROM/OF/FOR (of)SEVERAL (of)INDEPENDENT *(of)INDEPENDENT-VARIABLES MEETS BIG(GER) (of)DIFFICULTY(S).
3. APPLICATION (of)(to/for)THEORY(S) (of)ANALYTIC (of)FUNCTIONS NOT BRINGS/CITES/REDUCES₁ TO- (WARD)/FOR (to/for)(by/with/as)SUCH (to/for)(by/with/as)ENDED/COMPLETED (to/for)RESULTS, HOW/AS/-BUT IN/TO/AT/ON/OF/LIKE CASE/CHANCE/OCCURRENCE (of)(to/for)(by/with/as)ONE/ALONE (of)(to/for)(by/with/as)INDEPENDENT *(of)(to/for)(by/with/as)INDEPENDENT-VARIABLE, IN-AS-MUCH-AS SELF THEORY (of)ANALYTIC (of)FUNCTIONS NOT ADMITS (IT)(IS)SUFFICIENT(LY) (of)SATISFACTORY (of)GENERALI-ZATION(S) ON/IN/AT/TO/FOR/BY/WITH CASE/CHANCE/OCCURRENCE (of)SEVERAL (of)VARIABLE/ALTERNATING₈₃/-REVERSIBLE₉₁.
4. GENERALIZING \$RIEMANN *\$RIEMANN-SURFACES, WE COLLIDE/MEET WITH/FROM/ABOUT (by/with/as)IGNOR-ANCE (of)(to/for)(by/with/as)FULL/STOUT/COMPLETE (of)SYSTEM(S) (of)TOPOLOGICAL (of)VARIANTS (of)SURFACES IN/TO/AT/ON/OF/LIKE (of)MULTI-DIMENSIONAL SPACES/AREAS (CLOSED/LOCKED/RESERVED (of)(to/for)SURFACE(S) IN/TO/AT/ON/OF/LIKE (of)THREE-DIMENSIONAL SPACES/AREAS (THEY)HAVE ONLY/-SINGULAR INVARIANT -- ORDER *ORDER-OF-COMPENDENCY).
5. ARITHMETICAL THEORY ALSO NOT ADMITS (of)SATISFACTORY (of)GENERALIZATION(S), SINCE THEORY (of)IDEALS IN/TO/AT/ON/OF/LIKE CASE/CHANCE/OCCURRENCE (of)SEVERAL (of)INDEPENDENT *(of)INDEPEN-DENT-VARIABLES NOT BRINGS/CITES/REDUCES₁ TO(WARD)/FOR (to/for)ONE-DIGIT/UNAMBIGUOUS (to/for)-DEMORALIZATION/DECOMPOSITION/EXPANSION₁₁ (of)IDEALS ON/IN/AT/TO/FOR/BY/WITH SIMPLE/ELEMENTARY₃/-PRIME₁ IDEALS.
6. BIRATIONAL *BIRATIONAL-TRANSFORMATIONS NOT (THEY)LEAVE/RESERVE (by/with/as)INVARIANT EVEN (of)MEASUREMENTS (of)IDEALS.
7. HOWEVER WITH-THE-AID-OF (of)GEOMETRIC (of)METHOD IN/TO/AT/ON/OF/LIKE (of)(to/for)THEORY(S) (of)ALGEBRAIC (of)FUNCTIONS FROM/OF/FOR (of)TWO (of)INDEPENDENT *(of)INDEPENDENT-VARIABLES (THERE)WAS (IS)GOTTEN RATHER/(IT)(IS)ENOUGH MUCH/MANY (of)RESULTS.
8. HERE THE-MOST (by/with/as)PRODUCTIVE (THEY)TURNED-OUT-TO-BE REPRESENTATIVES (of)(to/for)(by/-with/as)\$ITALIAN (of)SCHOOL(S) (of)GEOMETRISTS.
9. BASIC RESULTS (of)(to/for)(by/with/as)THEIR(S)//THEM (of)WORKS (ARE)BROUGHT/CITED/REDUCED₁ IN/-TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)BIG (of)(to/for)MONOGRAPH(S) \$PICARA (E. PICARD) AND/EVEN/TOO/--- \$SIMARA (G. SIMART) [82], WHICH SIDE-BY-SIDE-WITH (to/for)(by/with/-as)GEOMETRIC (by/with/as)METHOD, (IS)WIDE(LY) (THEY)MADE-USE-OF/ENJOYED (by/with/as)METHOD (of)- (to/for)THEORY(S) (of)ANALYTIC (of)FUNCTIONS.
10. (by/with/as)BASIC (by/with/as)INVARIANTS (of)ALGEBRAIC (of)SURFACES (1) $f(x,y,z) = 0$ CONCERN-ING/(IS)RELATIVE(LY) (of)ALL-POSSIBLE (of)BIRATIONAL *(of)BIRATIONAL-TRANSFORMATIONS (THEY)ARE/-APPEAR: (1) GEOMETRIC GENRE P_g , THAT-IS NUMBER/DATE (IS)LINER(LY)/LINE₉₆ (of)INDEPENDENT (of)DOUBLE/GEMMINATE₄₁ (of)INTEGRALS 1-TH (of)TYPE/TRIBE/GENUS₄/GENDER₆₂ (THAT-IS (of)TAKING/-RECEIVING EVERYWHERE FINAL/FINITE (of)SIGNIFICANCE/VALUE₁(S); (2) ARITHMETICAL GENRE P_a OR P_n , WHICH WE NOT (WE)SHALL(BE) (IT)(IS/ARE)CLOSER (to)DEFINE/DETERMINE/ASSIGN; HE/IT NOT EXCEEDS P_g AND/EVEN/TOO/--- FOR (of)CERTAIN/SOME (of)SURFACES HAS NEGATIVE SIGNIFI-CANCE/VALUE₁; (3) BIGENRE P_2 , WHICH IT(IS)POSSIBLE (to)DEFINE/DETERMINE/ASSIGN HOW/AS/BUT NUMBER/DATE (IS)LINER(LY)/LINE₉₆ (of)INDEPENDENT (of)QUADRUPLE (of)INTEGRALS IN/TO/AT/ON/OF/-LIKE FIELD/BRIM/MARGIN/(to/for)FLAP $(x,y,z; \epsilon, \eta, \xi)$, WHERE SIDE-BY-SIDE-WITH (1), HAS

PLACE $f(\epsilon, \eta, \zeta) = 0$; (4) (IS)ANALOGOUS(LY) IS DEFINED/DETERMINED/ASSIGNED THREE-/TRI-
GENRE P_3 AND-SO-FORTH.

11. SURFACE (1) IS CALLED/NAMED (of)(to/for)(by/with/as)RATIONAL, IF ALL ELEMENTS (of)FIELD/-
BRIM/MARGIN(S) $k(x, y, z)$ (THEY)CAN (to)BE (IS)RATIONAL(LY) (ARE)EXPRESSED OVER/THROUGH/WITHIN/-
EVERY(OTHER) TWO (of)INDEPENDENT (of)ELEMENT (of)THIS (of)FIELD/BRIM/MARGIN(S).
12. FOR (of)RATIONAL (of)SURFACES ALL ENUMERATED/TRANSFERRED INVARIANTS (ARE)EQUAL (to/for)ZERO.
13. REVERSELY/INVERSELY/CONVERSELY/BACK, ANY/EACH SURFACE, FOR (of)(to/for)(by/with/as)WHICH $P_a =$
 $P_o = 0$, (IS)RATIONAL.

8 -- КРУПЧАТАТЕЛЬНАЯ ГЕОМЕТРИЯ, p. 283

1. §65. MUTUAL/RECIPROCAL INTERSECTION (of)POLYHEDRONS.
2. CONSTRUCTION/FORMATION₉₇ (of)(to/for)LINE(S) *(of)(to/for)LINE-OF-INTERSECTION (of)SURFACES (of)-
POLYHEDRONS (IT)IS)POSSIBLE (to)MAKE/DERIVE (by/with/as)TWO (by/with/as)METHODS, COMBINING
(of)(to/for)(by/with/as)THEIR(S)//THEM BETWEEN/AMONG (by/with/as)SELF/SELVES OR CHOOSING/TAKING-
OUT OUT/FROM THEM THAT, WHICH DEPENDING-ON (of)CONDITIONS (of)PROBLEM/ASSIGNMENT(S) GIVES/-
ALLOWS MORE SIMPLE/ELEMENTARY₃/PRIME₁ (of)CONSTRUCTION/FORMATION₉₇(S).
3. THESE METHODS FOLLOWING: 1) (THEY)DEFINE/DETERMINE/ASSIGN (of)POINT/PERIOD/SHARPENING(S), IN-
TO/AT/ON/OF/LIKE (of)WHICH (of)RIB/EDGE/RIFFLER₇₃(S) (of)ONE/ALONE OUT/FROM (of)POLYHEDRONS
(THEY)CROSS/CUT (of)(to/for)FACE/BOUNDARY/PERIOD₁(S) (of)(AN)OTHER AND/EVEN/TOO/--- (of)RIB/EDGE/-
RIFFLER₇₃(S) (of)SECOND (THEY)CROSS/CUT (of)(to/for)FACE/BOUNDARY/PERIOD₁(S) (of)FIRST.
4. FOUND (of)POINT/PERIOD/SHARPENING(S) (THEY)CONNECT/UNITE BETWEEN/AMONG (by/with/as)SELF/SELVES
IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)DEFINITE (of)(to/for)SUCCESION/CONSISTENCY AND/EVEN/-
TOO/--- (THEY)GET BROKEN LINE, (RE)PRESENTING/IMAGINING *REPRESENTING (by/with/as)SELF/SELVES
LINE *LINE-OF-INTERSECTION (of)GIVEN/DATA (of)SURFACES.
5. BESIDES//AT/WITH/BEFORE/IN-TIME-OF THIS (IT)IS)POSSIBLE (to)CONNECT/UNITE BETWEEN/AMONG (by/with/-
as)SELF/SELVES (of)(to/for)PROJECTION(S) ONLY/AS-SOON-AS (of)THOSE (of)POINTS/PERIODS/SHARPENINGS,
(of)GOTTEN IN/TO/AT/ON/OF/LIKE PROCESS/DISEASE₅₃/SUIT₆₈ (of)CONSTRUCTION/FORMATION₉₇(S), WHICH
(THEY)LIE IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/as)ONE/ALONE AND/EVEN/TOO/--- (of)(to/for)(by/-
with/as)THE-SAME (of)(to/for)FACE/BOUNDARY/PERIOD₁(S).
6. 2) (THEY)DEFINE/DETERMINE/ASSIGN PIECES/SEGMENTS/(of)CUTTING-OFF (of)DIRECT/STRAIGHT(LINE)(S)/RIGHT₁₂,
ON/BY/ALONG/FOR/IN/--- (to/for)(by/with/as)WHICH (of)(to/for)FACE/BOUNDARY/PERIOD₁(S) (of)ONE/ALONE
OUT/FROM (of)POLYHEDRONS (THEY)CROSS/CUT (of)(to/for)FACE/BOUNDARY/PERIOD₁(S) (of)(AN)OTHER;
THESE PIECES/SEGMENTS/(of)CUTTING-OFF (THEY)ARE/APPEAR (by/with/as)LINKS/TEAMS (of)(to/for)(by/-
with/as)(BEING)GOTTEN AT/WITH/BEFORE/IN-TIME-OF INTERSECTION (of)POLYHEDRONS (of)(to/for)(by/with/-
as)BROKEN (of)(to/for)LINE(S).
7. IF PROJECTION (of)RIB/EDGE/RIFFLER₇₃(S) (of)ONE/ALONE OUT/FROM (of)POLYHEDRONS NOT CROSSES/-
CUTS (of)(to/for)PROJECTION(S) (of)(to/for)FACE/BOUNDARY/PERIOD(S) (of)(AN)OTHER EVEN(IF) ON/IN/-
AT/TO/FOR/BY/WITH (of)(to/for)(by/with/as)ONE/ALONE OUT/FROM (of)PROJECTIONS (of)THESE (of)-
BODIES, THAT/THEN/OR GIVEN RIB/EDGE/RIFFLER₇₃ NOT CROSSES/CUTS (of)(to/for)(by/with/as)THIS
(of)(to/for)FACE/BOUNDARY/PERIOD₁(S).
8. HOWEVER INTERSECTION (of)PROJECTIONS (of)RIB/EDGE/RIFFLER₇₃(S) AND/EVEN/TOO/--- (of)(to/for)-
FACE/BOUNDARY/PERIOD₁(S) STILL/YET/MORE/ALSO NOT SIGNIFIES, THAT/WHAT/WHICH THESE RIB/EDGE/-
RIFFLER₇₃ AND/EVEN/TOO/--- FACE/BOUNDARY/PERIOD₁ ARE CROSSED OUT/(THEY)CROSS IN/TO/AT/ON/OF/LIKE
SPACE/AREA.
9. AT/WITH/BEFORE/IN-TIME-OF SELECTION (of)AUXILIARY (of)PLANES/FLATNESSES, (of)NECESSARY FOR
(of)FINDING/LOCATION(S) (of)POINTS/PERIODS/SHARPENINGS *(of)POINTS-OF-INTERSECTION (of)RIBS/EDGES/-

RIFFLES₇₃ AND/EVEN/TOO/--- (of) FACES/BOUNDARIES/PERIPHERIES₁ IT-IF-NECESSARY/FOLLOWS (to) BE-GUIDED (by/with/as) DIAGRAMS/PLANS, (by/with/as) SHOWN/POINTED IN/TO/AT/ON/OF/LIKE §64: THIS IN-GENERAL SIMPLIFIES (of) CONSTRUCTION/FORMATION₉₇(S).

10. IN/AT/ON -- CERTAIN/SOME OUT/FROM (of) (BEING) BROUGHT/CITED/REDUCED₁ (IS/ARE) LOWER/SHORTER//BELOW (of) EXAMPLES WE (LET-US/WE-SHALL) USE STATED (IS/ARE) HIGHER/TALLER//BEFORE GENERAL/COMMON/TOTAL (of) DIAGRAM/PLAN(S) (of) CONSTRUCTION/FORMATION₉₇(S) (of) POINTS/PERIODS/SHARPENINGS *(of) POINTS-OF-INTERSECTION; IN/TO/AT/ON/OF/LIKE (of) OTHER -- (WE) (SHALL/LET-US) MAKE-USE-OF (by/with/as) PRIVATE/-PARTICULAR/QUOTIENT₁/PARTIAL₁ (by/with/as) PECULIARITIES (of) DIAGRAM AND/EVEN/TOO/--- (LET-US/WE-SHALL) SIMPLIFY (of) CONSTRUCTION/FORMATION₉₇(S).

9 -- МИКРОБИОЛОГИЯ, pp. 297-9

1. INFECTION/CORRUPTION (by/with/as) NODULAR *(by/with/as) NODULAR-BACTERIA COMES/ADVANCES/TREADS ESPECIALLY/PECULIARLY (IT) (IS) LIGHT/EASY(LY) AT/BY/WITH/FROM (of) PLANTS, (of) WEAKENED/LOOSENED (to/for) (by/with/as) NITROGEN/NITROUS (by/with/as) STARVATION, AND/EVEN/TOO/--- (IS) CONSIDERABLE/-SIGNIFICANT(LY) (IS/ARE) MORE-DIFFICULT(LY) HAPPENS/COMES-FROM AT/BY/WITH/FROM (of) PLANTS, (IS)-ENERGETIC(ALLY) (of) GROWING ON/IN/AT/TO/FOR/BY/WITH (of) RICH (of) NITROGEN/NITROUS SOILS/GROUNDS.
2. PROCEEDING-FROM-THIS (of) FACT/CASE, (THERE) WAS (IS) EXPRESSED ASSUMPTION, THAT/WHAT/WHICH NODULAR *NODULE-BACTERIA (THEY) ARE/APPEAR (by/with/as) PARASITE/IDLER₈₁ (of) LEGUMINOUS-PLANTS.
3. FURTHER, MORE CLOSE STUDY SHOWED/TESTIFIED₆₈, THAT/WHAT/WHICH NOT ALWAYS (of) (to/for)-BACTERIA (THEY) SHOW/DEVELOP ACTIVITY, SOMETIMES AND/EVEN/TOO/--- PLANT CAN (of) (to/for)- (by/with/as) THEIR(S)//THEM (to) DISSOLVE/OPEN-WIDE INSIDE (of) CAGES/SQUARES/CELLS₄/MESHES₉₁.
4. BUT/AND SINCE PRODUCTS/PROVISIONS (of) DISSOLVING..SOLUTIONS (of) BACTERIA PLANT, APPARENTLY, CAN (to) USE FOR (of) OWN (of) FEEDING/NOURISHMENT(S), THAT/THEN/OR (THERE) WAS (IS) EXPRESSED REVERSE/INVERSE/CONVERSE/RETURN ASSUMPTION, THAT/WHAT/WHICH NOT (of) (to/for) BACTERIA, BUT/AND SELF LEGUMINOUS-PLANT IS/APPEARS (by/with/as) PARASITE/IDLER₈₁ (of) BACTERIA.
5. HOWEVER CHARACTER (of) INTERRELATIONS BETWEEN/AMONG (by/with/as) NODULAR *NODULAR-BACTERIA AND/-EVEN/TOO/--- (by/with/as) LEGUMINOUS/BEAN *(by/with/as) LEGUMINOUS-PLANTS, APPARENTLY, SEVERAL/-SOMEWHAT (of) (to/for) (by/with/as) (AN) OTHER.
6. IT (IS) POSSIBLE (to) CONSIDER/COUNT (IS) EXACT/PRECISE(LY) (to/for) (by/with/as) INSTALLED/ESTABLISHED/-PLACED, THAT/WHAT/WHICH LEGUMINOUS-PLANT FURNISHES/DELIVERS (to/for) (by/with/as) NODULAR *(to/-for) NODULE-BACTERIA NON-NITROGENOUS ORGANIC (of) SUBSTANCE(S) ((of) SUGAR(S)), WHICH IN/TO/-AT/ON/OF/LIKE CAGES/SQUARES/CELLS₄/MESHES₉₁ (of) BACTERIA ARE SUBJECTED/EXPOSED (to/for) WORKING-OVER(TIME) AND/EVEN/TOO/--- PARTIALLY/(by/with/as) PART/DEPARTMENT/FATE/UNIT₉₇ (THEY) GO-OVER/CHANGE IN/TO/AT/ON/OF/LIKE NITROGEN/NITROUS *NITROGENOUS-COMPOUNDS AT-THE-EXPENSE (of) (to/for) ASSIMILATION (of) MOLECULAR (of) NITROGEN.
7. PART/DEPARTMENT/FATE/UNIT₉₇ (of) NITROGEN/NITROUS (of) SUBSTANCES IS-CONSUMED (by/with/as) SELVES (by/with/as) BACTERIA FOR (of) CONSTRUCTION/FORMATION₉₇(S) (of) WHITES/PROTEINS (of) OWN (of)-BODY(S), BUT/AND PART/DEPARTMENT/FATE/UNIT₉₇ (of) (to/for) (by/with/as) THEIR(S)//THEM STANDS-OUT//IS DISCHARGED/ISOLATED/ALLOTTED TO-THE-OUTSIDE/OUTWARD IN-THE-FORM//IN/AT/ON VIEW/SPECIES₄/ASPECT₆₂ (of) SUBSTANCES, (of) (BEING) ASSIMILATED FURTHER (to/for) (by/with/as) LEGUMINOUS/BEAN *(by/with/as)-LEGUMINOUS-PLANT.
8. ONLY IN/AT/ON -- CERTAIN/SOME *IN-SOME-CASES (of) INFECTION/CORRUPTION(S) NODULAR *NODULE- -BACTERIA NOT FORMS/EDUCATES INSIDE (of) NODULE (of) BACTERIODS, NOT (WILL) ASSIMILATE(S) (of) NITROGEN AND/EVEN/TOO/--- AS-IF PARASITIZES ON/IN/AT/TO/FOR/BY/WITH PLANT/
9. (by/with/as) WHAT/WHICH/THAN/THE HOWEVER/THEN/ALSO SUCH PROPERTY/NATURE/RELATIONSHIP (of) BACTERIA IS DETERMINED/CONDITIONED?

10. ALONGSIDE/(by/with/as)ROW/SERIES (of)INVESTIGATIONS (THERE)WAS (IS)SHOWN/TESTIFIED₆₈, THAT/WHAT/- WHICH SYMBIOTIC CONTACT BETWEEN/AMONG (to/for)(by/with/as)LEGUMINOUS/BEAN *(by/with/as)LEGUMINOUS-PLANT AND/EVEN/TOO/--- (by/with/as)BACTERIA IS INSTALLED/ESTABLISHED/PLACED ONLY THEN, WHEN IN/TO/AT/ON/OF/LIKE (to/for)MEDIUM/ENVIRONMENT/WEDNESDAY THERE-ARE EVEN(IF) TRACES NORTH-WIND/(of)BORON₃/DRILL₉₁/CONIFEROUS-FOREST.
11. IN/TO/AT/ON/OF/LIKE ABSENCE (of)LAST/LATTER FIBROUS THREADS/FIBRES/SUTURES₅₄, GOING/COMING/- SUITING FROM/OF/FOR (of)(to/for)(by/with/as)VASCULAR *(of)VASCULAR-SYSTEM (of)ROOT/RADICAL₁ TO-(WARD)/FOR (to/for)NODULE, (THEY)DEVELOP/UNTWIST//ARE DEVELOPED/UNTWISTED (IS)INSIGNIFICANT/NEGLIGIBLE(LY) OR AT-ALL/COMPLETELY NOT (THEY)DEVELOP/UNTWIST//ARE DEVELOPED/UNTWISTED.
12. IN/TO/AT/ON/OF/LIKE SUCH CASE/CHANCE/OCCURRENCE (of)(to/for)BACTERIA ALTHOUGH (THEY)ARE(FOUND)/--- IN/TO/AT/ON/OF/LIKE ROOT/RADICAL₁, BUT (THEY)GET FEW/LITTLE/(IS)SMALL (of)SUGARS, NOT (THEY)CAN (to)SYNTHESIZE IN/TO/AT/ON/OF/LIKE SUFFICIENT QUANTITY NITROGEN/NITROUS *NITROGENOUS-COMPOUNDS, AS-A-RESULT//IN/AT/ON -- RESULT *AS-A-RESULT-OF-WHICH AND/EVEN/TOO/--- (of)-PLANT(S) OR AT-ALL/COMPLETELY NOT (THEY)GET OR (THEY)GET FEW/LITTLE/(IS)SMALL (of)TIED/-CONNECTED/KNITTED (of)NITROGEN.
13. NON- SUCCESSFUL CONTACT IN/TO/AT/ON/OF/LIKE FIRST PERIODS (of)EDUCATION/FORMATION(S) (of)-NODULE BRINGS/CITES/REDUCES₁ TO(WARD)/FOR (to/for)COMPLICATIONS (of)(to/for)(by/with/as)NORMAL *(of)NORMAL-PICTURE.
14. THESE (of)COMPLICATION(S) AND/EVEN/TOO/--- (THEY)CREATED IMPRESSION AT/BY/WITH/FROM (of)MANY (of)INVESTIGATORS, THAT/WHAT/WHICH (of)(to/for)BACTERIA (THEY)ARE/APPEAR (by/with/as)PARASITES/-IDLERS₈₁ (of)PLANTS.
15. SUCH POSITION/CONDITION/THESIS/REGULATIONS STILL/YET/MORE/ALSO MORE WAS-INCREASED, (by/with/as)THE-FACT-THAT/THAT-WHICH IT-WAS-POSSIBLE (to)OBSERVE/SUPERVISE DISSOLVING (of)NODULAR *(of)-NODULE-BACTERIA INSIDE (of)NODULE.
16. ONLY THEN/(by/with/as)SWEAT WAS CLARIFIED/ASCERTAINED, THAT/WHAT/WHICH THIS DISSOLVING MUST/-SHOULD/OWES (to)BE (IS)ASCIBED/POSTSCRIPTED NOT (of)(to/for)ACTIVITY (of)LEGUMINOUS/BEAN *(of)LEGUMINOUS-PLANT, BUT/AND (to/for)PRESENCE IN/TO/AT/ON/OF/LIKE HIM/IT//MUTE (of)SEPARATE/-SPECIAL (of)ULTRAMICROSCOPIC (of)BACTERIOPHAGES.
17. THEY (THEY)CAN (to)BE (ARE)REVEALED/DISCOVERED IN/TO/AT/ON/OF/LIKE CLOTHS/TISSUES₄ (of)ROOT/-RADICAL₁ AND/EVEN/TOO/--- EVEN (of)STALK/SHAFT₉₁/BOLT, BUT APPARENTLY, NOT ALWAYS, SINCE SHVETSOVOI (IT)SUCCEEDED (to)SHOW/TESTIFY₆₈, THAT/WHAT/WHICH BACTERIOPHAGE SOMETIMES (IS)INCAPABLE (to)PENETRATE IN/TO/AT/ON/OF/LIKE PLANT TOGETHER-WITH (by/with/as)BACTERIA, ALTHOUGH IS-KEPT IN/TO/AT/ON/OF/LIKE (of)(to/for)(by/with/SURROUNDING PLANT (to/for)MEDIUM/ENVIRONMENT/-WEDNESDAY.
18. (of)(to/for)BACTERIA HOWEVER/THEN/ALSO (IT)(IS)LIGHT/EASY(LY) (THEY)PENETRATED IN/TO/AT/ON/OF/LIKE PLANT AND/EVEN/TOO/--- IN-THE-PRESENCE (of)BACTERIOPHAGE, FORMING/EDUCATING BIG QUANTITY (of)NODULES.
19. ON-THE-BASIS (of)THESE (of)OBSERVATIONS/SUPERVISIONS IT-IS-NECESSARY/FOLLOWS (to)SUPPOSE, THAT/-WHAT/WHICH ROLE (of)BACTERIOPHAGES IN/TO/AT/ON/OF/LIKE INTERRELATIONS BETWEEN/ (by/with/as)LEGUMINOUS/BEAN *(by/with/as)LEGUMINOUS-PLANTS AND/EVEN/TOO/--- (by/with/as)BACTERIA MORE (IS)LIMITED, (by/with/as)WHAT/WHICH/THAN/THE WAS TAKEN/RECEIVED UP-TO-NOW.
20. THEREFORE ANSWER-TO-QUESTION, HAS (WHETHER) PLACE IN/TO/AT/ON/OF/LIKE INTERRELATIONS (of)-BACTERIA AND/EVEN/TOO/--- (of)LEGUMINOUS/BEAN *(of)LEGUMINOUS-PLANTS PARASITISM OR SYMBIOSIS, -- STILL/YET/MORE/ALSO NOT COMPLETELY (IS)CLEAR, BUT ASKS/SUGGESTS-SELF *COME-TO-MIND.
21. ROW/SERIES (of)OBSERVATIONS/SUPERVISIONS (IS/ARE)QUICK(ER)//RATHER SPEAKS/SAYS IN-FAVOR (of)-SYMBIOSIS.
22. ON/IN/AT/TO/FOR/BY/WITH THE-SAME (THEY)SHOW/POINT AND/EVEN/TOO/--- (of)QUANTITY(S) (of)ASSIMI-

LATED (by/with/as) LEGUMINOUS/BEAN *(by/with/as) LEGUMINOUS-PLANTS (of) NITROGEN.

23. THEY (IS) CONSIDERABLE/SIGNIFICANT(LY) MORE/(IS/ARE) BIGGER, (by/with/as) WHAT/WHICH/THAN/THE THOSE, WHICH PLANT COULD(HAVE) (to) GET, IF (WOULD-HAVE/ WOULD) ONLY DISSOLVED/OPENED-WIDE NODULAR *NODULE-BACTERIA.

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1. CHAPTER/HEAD 6.
2. ROOTS/RADICALS₁ (of) (to/for) BRANCH(ES) (of) NEURAL-GANGLIA.
3. SELF NAME " NEURAL-GANGLION " SPEAKS -- FOR -- THAT *SPEAKS-FOR-THE-FACT-THAT EDUCATION/-FORMATION, (BEING) DESIGNATED (by/with/as) THIS/(to/for) THESE (by/with/as) TERM/THERMIN, TIES/-CONNECTS/KNITS BETWEEN/AMONG (by/with/as) SELF/SELVES GOING/COMING/SUITING IN/TO/AT/ON/OF/LIKE (of) DIFFERENT DIRECTIONS NERVE/NERVOUS CONDUCTORS.
4. NEURAL-GANGLION -- SYNAPTIC ORGAN/AGENCY, THAT-IS IN/TO/AT/ON/OF/LIKE HIM/IT//MUTE HAPPENS/-COMES-FROM CONTACT (of) NERVE/NERVOUS *(of) NERVE-ENDING (of) PERICELLULAR (of) APPARATUS (of) - (to/for) (by/with/as) ONE/ALONE (of) CAGE/SQUARE/CELL₄/MESH₉₁(S) WITH/FROM/ABOUT (by/with/as) BODY OR (by/with/as) SPROUT₄₁/APPENDIX₅/EXTENSION (of) (to/for) (by/with/as) (AN) OTHER (of) NERVE-CELL.
5. BESIDES (of) THAT, OVER/THROUGH/WITHIN/EVERY(OTHER) KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ (THEY) GO/COME/SUIT BUNDLES/WISPS/FASCICLES₄₁/BEAMS₂₄ (of) FIBERS AND/EVEN/TOO/--- SEPARATE/INDIVIDUAL (of) FIBER(S), WHICH NOT/NEITHER IN/TO/AT/ON/OF/LIKE (of) (to/for) (by/with/as) WHAT/WHICH/ANY APPARENT/(BEING) SEEN CONTACT WITH/FROM/ABOUT (by/with/as) ELEMENTS (of) KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ NOT (THEY) ENTER.
6. ALL THIS INVOLVES THE-FACT-THAT/THAT-WHICH KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ IS TIED/CONNECTED/KNITTED (by/with/as) NERVE/NERVOUS *(by/with/as) NERVE/TRUNKS WITH/FROM/ABOUT (by/with/as) SURROUNDING (by/with/as) EDUCATIONS/FORMATIONS.
7. (of) (to/for) CONNECTION/COMMUNICATION/BOND₃/COUPLING₈₃/BRACE₉₄/LIAISON₉₇(S) (of) KNOT/JUNCTION/BUNDLE/-NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ (THERE) ARE (USUALLY) OCCUR (of) DUAL (of) ORDER; IN-THE-FIRST-PLACE, KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ (IS) TIED/CONNECTED/KNITTED WITH/FROM/ABOUT (by/with/as) FORMING/EDUCATING (of) (to/for) (by/with/as) HIS/ITS//HIM/IT (by/with/as) NERVE/NERVOUS *(by/with/as) NERVE-TRUNKS, ON/BY/ALONG/FOR/IN/--- (to/for) (by/with/as) WHICH WENT/-CAME/SUITED MOVEMENT/ADVANCE (of) (to/for) (by/with/as) HIS/ITS//HIM/IT (of) CAGE/CELL₄ (of) MASSES/PASTES/PULPS AND/EVEN/TOO/--- WHICH (THEY) TIE/CONNECT/KNIT (of) (to/for) (by/with/as) HIS/ITS//HIM/IT WITH/FROM/ABOUT (of) (to/for) (by/with/as) CENTRAL/CENTER *(by/with/as) CENTRAL-NERVOUS-SYSTEM AND/EVEN/TOO/---, IN-THE-SECOND-PLACE, KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ (IS) TIED/CONNECTED/KNITTED WITH/FROM/ABOUT (to/for) (by/with/as) (BEING) INNERVATED (by/with/as) ORGAN/AGENCY.
8. BEHIND/BEYOND/FOR/AFTER/IN/AT/--- (by/with/as) FIRST (by/with/as) CONNECTIONS/COMMUNICATIONS/BONDS₃/COUPLINGS₈₃/BRACES₉₄/LIAISONS₉₇ IS-HELD(BACK)/HOLDS(BACK) NAME (of) ROOTS/RADICALS₁ (RADIX), BEHIND/BEYOND/FOR/AFTER/IN/AT/--- (by/with/as) SECOND -- (of) BRANCHES (RAMUS).
9. (IS) USUAL(LY) ROOT/RADICALS₁ (IS) FUNCTIONAL(LY) (ARE) DEMARCATED; FOR-EXAMPLE, (THEY) EXIST: SENSITIVE/PERCEPTIBLE/SENSORY₄, MOTOR, SYMPATHETIC ROOTS/RADICALS₁ (fig. 27).
10. (UNI) FORM AND/EVEN/TOO/--- MAGNITUDE/QUANTITY (of) ROOTS/RADICALS₁ (IS) EXTRAORDINAR(IL)Y (THEY)-VARY.
11. FIRST-OF-ALL (ARE) COMMON SUCH CASES/CHANCES/OCCURRENCES, WHEN ROOT/RADICAL₁ IS-ABSENT, THAT-IS KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ (IS) DIRECT(LY) (IS) BRAZED/-SOLDERED₉ WITH/FROM/ABOUT (to/for) (by/with/as) OWN (by/with/as) NERVE-TRUNK.
12. BUT, (IT) TURNS-OUT-TO-BE//IS EXERTED/GIVEN, THAT/WHAT/WHICH THIS ABSENCE ONLY SEEMING.

13. REALLY ROOTS/RADICALS₁ (of) KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ ALWAYS (THEY)-
ARE-PRESENT, BUT THEY (THEY) CAN OR NOT (to) GO/COME OUT BEHIND/BEYOND/FOR/AFTER/IN/AT/---
LIMITS (of) NERVE-TRUNK, OR (to/for) (by/with/as) TIGHTEST/CLOSEST (by/with/as) FORM/WAY/IMAGE (to)-
ADJOIN TO(WARD)/FOR (to/for) NERVE-TRUNK.
14. THIS AND/EVEN/TOO/--- LEADS/CONDUCTS/RAISES TO(WARD)/FOR (to/for) THE-FACT-THAT/THAT-WHICH SOME-
TIMES ROOT/RADICAL₁ NOT (IS) ISOLATED/SEPARATED, NOT (IS) EXPRESSED IN-THE-FORM//IN/AT/ON VIEW/-
SPECIES₄/ASPECT₆₂ (of) INDEPENDENT (of) NERVE-TRUNK.
15. WHEREAS/MEANWHILE/BETWEEN-THAT, BY-MEANS//(by/with/as) WAY/PASSAGE/JOURNEY/TRACK₉₃ (of) SPLITTING(S)
WITH/FROM/ABOUT (by/with/as) AID (of) ACIDS (IT) SUCCEEDS ALWAYS (to) DISCHARGE/ISOLATE/ALLOT
BUNDLES/WISPS/FASCICLES₄₁/BEAMS₂₄ (of) FIBERS IN/TO/AT/ON/OF/LIKE (to/for) THICKNESS/STRATUM₇₃//(IS/-
ARE) THICKER/STOUTER (of) NERVE-TRUNK, SUITABLE/APPROACHING TO(WARD)/FOR (of) (to/for) (by/with/as)-
GANGLIAL (to/for) MASS/PASTE/PULP.
16. CASES/CHANCES/OCCURRENCES (of) APPARENT/(BEING) SEEN (of) ABSENCE (of) ROOTS/RADICALS₁ WERE-OBSERVED
IN-THE-WHOLE-SERIES (of) KNOTS/JUNCTIONS/BUNDLES/NODES₄₁/GANGLIA₅₁/ASSEMBLIES₉₁/JOINTS₉₄, FOR-EXAMPLE,
ON/IN/AT/TO/FOR/BY/WITH CILIARY (SVITZER, SPALTEHOLZ, HOVELACQUE, V. SOKOLOV AND/EVEN/-
TOO/--- OTHERS), ON/IN/AT/TO/FOR/BY/WITH GANGL/ OTICUM (ROUSSET) AND-SO-FORTH.
17. FOR (of) CERTAIN/SOME (of) KNOTS/JUNCTIONS/BUNDLES/NODES₄₁/GANGLIA₅₁/ASSEMBLIES₉₁/JOINTS₉₄ VERY
(ARE) CHARACTERISTIC EXTREMELY SHORTENED ROOTS/RADICALS₁ (FOR-EXAMPLE, AT/BY/WITH/FROM GANGL,
OTICUM), (by/with/as) WHICH HE/IT (IS) CONNECTED/UNITED WITH/FROM/ABOUT N. MANDIBULARIS, THE-
SAME SHORT ROOTS/RADICALS₁ ARE MARKED/NOTED ON/IN/AT/TO/FOR/BY/WITH KNOTS/JUNCTIONS/BUNDLES/-
NODES₄₁/GANGLIA₅₁/ASSEMBLIES₉₁/JOINTS₉₄ (of) ROOTLETS/STUBS/BACKS (of) CRANIO-CEREBRAL (of) NERVES
(V. SOKOLOV, A. TSVETKOV) AND-SO-FORTH.
18. (IS/ARE) MORE FREQUENT/THICK/RAPID(LY)//(to/for) THICKET ARE-OBSERVED ROOTS/RADICALS₁ (of) (to/for)-
(by/with/as) DIFFERENT (of) LENGTH(S), WHEREIN SOMETIMES SIZE/DIMENSION/SCALE/METER₆₂ (of) ROOT/-
RADICAL₁ (SO) MUCH (IS) CONSTANT/PERMANENT/DIRECT₈₃ FOR (of) DEFINITE (of) ROOT/RADICAL₁, THAT/-
WHAT/WHICH NAME (of) ROOT/RADICAL₁ IS-CHARACTERIZED (of) (to/for) (by/with/as) HIS/ITS//HIM/IT (by/-
with/as) SIZE/DIMENSION/SCALE/METER₆₂.
19. FOR-EXAMPLE, AT/BY/WITH/FROM (of) THE-SAME (of) CILIARY (of) KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/-
ASSEMBLY₉₁/JOINT₉₄ BEHIND/BEYOND/FOR/AFTER/IN/AT/--- (to/for) (by/with/as) MOTOR (by/with/as) ROOT/-
RADICAL₁ (WAS) HELD(BACK) NAME (of) SHORT, BEHIND/BEYOND/FOR/AFTER/IN/AT/--- (to/for) (by/with/as)-
SENSITIVE/PERCEPTIBLE/SENSORY₄ -- (of) LONG.
20. TRUTH-JUSTICE//IT-IS-TRUE, ARE-OBSERVED CASES/CHANCES/OCCURRENCES, WHEN "SHORT" ROOT/RADICAL₁
(IS/ARE) SHORTER "(of) SHORT" (FIG. 28).
21. ON/IN/AT/TO/FOR/BY/WITH OWN (of) (to/for) WAY/PASSAGE/JOURNEY/TRACK₉₃(S) ROOT/RADICAL₁ CAN (to) BE
(IS) CONCEALED IN/TO/AT/ON/OF/LIKE SOME/ANY EDUCATION/FORMATION.
22. FOR-EXAMPLE, IT-WAS-NECESSARY (to) OBSERVE/SUPERVISE CASES/CHANCES/OCCURRENCES, WHEN LONG ROOT/-
RADICAL₁ (of) CILIARY (of) KNOT/JUNCTION/BUNDLE/NODE₄₁/GANGLION₅₁/ASSEMBLY₉₁/JOINT₉₄ ((of) EXTERNAL
AND/EVEN/TOO/--- (of) MEDIAL *(of) MEDIAL-PLEXUS) TURNED-OUT-TO-BE/WAS EXERTED/GIVEN ON/IN/AT/TO/-
FOR/BY/WITH OWN (of) (to/for) WAY/PASSAGE/JOURNEY/TRACK₉₃(S) (to/for) (by/with/as) EMBEDDED/IMMURED
IN/TO/AT/ON/OF/LIKE THICKNESS/STRATUM₇₃ (of) COVERING/MEMBRANE₅₁(S) (of) VISUAL/OPTIC₅ (of) NERVE.
23. SIMILAR/SUCH/LIKE (of) APPEARANCE/PHENOMENON/SYMP TOM₅₃(S) (IT) (IS) NECESSARY (IS) THOROUGH(LY) (to)-
REVEAL/DISCOVER, SINCE (of) (to/for) (by/with/as) THEIR(S)/THEM NON-RECOGNITION CAN (of) (to/for)-
STORY//(to) LEAD/MOVE TO(WARD)/FOR (to/for) (by/with/as) INCORRECT/IMPROPER/IRREGULAR (to/for) DEDUC-
TIONS/OUTLETS₉/DERIVATIONS₁.