

## The List of S.M. Nikol'skii's Works

### 1936

“Linear Equations in a Metric Space,” *Dokl. Akad. Nauk SSSR* **2** (8), 309–312 (1936).

### 1938

“Linear Equations in Function Spaces,” *Nauchn. Zap. Dnepropetr. Univ.* **1** (1), 13–22 (1938).

“An Adjoint Linear Operator in the Space of Functions of Bounded Variation,” *Nauchn. Zap. Dnepropetr. Univ.* **1** (1), 23–27 (1938).

### 1940

“On the Asymptotic Behavior of the Remainder under Approximation of Functions Satisfying the Lipschitz Condition by Fejer Sums,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **4** (6), 501–508 (1940).

“On Some Methods of Approximation by Trigonometric Sums,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **4** (6), 509–520 (1940).

### 1941

“Estimations of the Remainder of a Fejer Sum for Periodic Functions Possessing a Bounded Derivative,” *Dokl. Akad. Nauk SSSR* **31** (3), 210–214 (1941).

“An Asymptotic Estimate for the Remainder under Approximation by Interpolating Trigonometric Polynomials,” *Dokl. Akad. Nauk SSSR* **31** (3), 215–218 (1941).

“An Asymptotic Estimate for the Remainder under Approximation by Fourier Sums,” *Dokl. Akad. Nauk SSSR* **32** (6), 386–389 (1941).

“On a Functional Inequality,” *Nauchn. Zap. Dnepropetr. Univ.* **25**, 41–43 (1941).

### 1943

“Linear Equations in Normed Linear Spaces,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **7** (3), 147–166 (1943).

### 1944

“Approximation of Functions Satisfying the Lipschitz Condition by Polynomials,” *Dokl. Akad. Nauk SSSR* **42** (3), 113–116 (1944).

### 1945

*Approximation of Periodic Functions by Trigonometric Polynomials* (Akad. Nauk SSSR, Moscow, 1945), *Tr. Mat. Inst. im. V.A. Steklova, Akad. Nauk SSSR* **15**, 76 p.

### 1946

“Approximation of Functions in the Mean by Trigonometric Polynomials,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **10** (3), 207–256 (1946) [*Am. Math. Soc. Transl., Ser. 2*, **102**, 53–94 (1973)].

“On the Best Approximation of Functions Satisfying the Lipschitz Condition by Polynomials,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **10** (4), 295–322 (1946).

“On Interpolation and Best Approximation of Differentiable Periodic Functions by Trigonometric Polynomials,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **10** (5), 393–410 (1946).

“Best Approximation of Functions Satisfying the Lipschitz Condition by Polynomials,” *Dokl. Akad. Nauk SSSR* **52** (1), 7–10 (1946).

“Fourier Series of Functions with a Given Modulus of Continuity,” *Dokl. Akad. Nauk SSSR* **52** (3), 191–194 (1946).

### 1947

“On the Best Approximation in the Mean of the Function  $|a - x|^s$  by Polynomials,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **11** (2), 139–180 (1947).

“On the Best Approximation of a Function Whose  $s$ th Derivative Has Discontinuities of the First Kind,” *Dokl. Akad. Nauk SSSR* **55** (2), 99–102 (1947).

“On the Best Approximation in the Mean of Functions with Singularities of the Form  $|a - x|^s$  by Polynomials,” Dokl. Akad. Nauk SSSR **55** (3), 195–198 (1947).

“Best Approximation in the Mean of a Class of Functions by Arbitrary Polynomials,” Dokl. Akad. Nauk SSSR **58** (1), 25–28 (1947).

“On the Best Linear Method of Approximation in the Mean of Differentiable Functions by Polynomials,” Dokl. Akad. Nauk SSSR **58** (2), 185–188 (1947).

*Approximation Theory*, Part 1: *Functional Analysis*, Lectures Delivered at the Dnepropetrovsk State University (Dnepropetrovsk. Gos. Univ., Dnepropetrovsk, 1947), 71 p. [in Russian].

#### 1948

“On Linear Methods of Summation of Fourier Series,” Izv. Akad. Nauk SSSR, Ser. Mat. **12** (3), 259–278 (1948).

“A Generalization of a Proposition by S.N. Bernstein on Differentiable Functions of Several Variables,” Dokl. Akad. Nauk SSSR **59** (9), 1533–1536 (1948).

“A Generalization of an Inequality of S.N. Bernshtein,” Dokl. Akad. Nauk SSSR **60** (9), 1507–1510 (1948).

“Approximation of Functions of a Real Variable by Polynomials,” in *Mathematics in the USSR for 30 Years* (Gostekhizdat, Moscow, 1948), pp. 288–318 [in Russian].

#### 1949

“The Fourier Series of Functions with Derivatives of Bounded Variation,” Izv. Akad. Nauk SSSR, Ser. Mat. **13** (6), 513–532 (1949).

“The Fourier Series of Functions with Derivatives of Bounded Variation,” Dokl. Akad. Nauk SSSR **65** (1), 13–15 (1949).

“On the Asymptotically Best Linear Method of Approximating Differentiable Functions by Polynomials,” Dokl. Akad. Nauk SSSR **69** (2), 129–132 (1949).

#### 1950

“On the Dini–Lipschitz Condition for the Convergence of a Fourier Series,” Dokl. Akad. Nauk SSSR **73** (3), 457–460 (1950).

“On the Problem of Estimates for Approximations by Quadrature Formulas,” Usp. Mat. Nauk **5** (2), 165–177 (1950).

“On the Best Approximation of Differentiable Nonperiodic Functions by Polynomials,” Acta Sci. Math. Szeged **12**, 185–197 (1950).

#### 1951

“Inequalities for Entire Functions of Finite Degree and Their Application to the Theory of Differentiable Functions of Several Variables,” Tr. Mat. Inst. im. V.A. Steklova, Akad. Nauk SSSR **38**, 244–278 (1951) [Am. Math. Soc. Transl., Ser. 2, **80**, 1–38 (1969)].

“Some Inequalities for Entire Functions of Finite Degree of Several Variables and Their Application,” Dokl. Akad. Nauk SSSR **76** (6), 785–788 (1951).

#### 1952

“Quadrature Formulas,” Izv. Akad. Nauk SSSR, Ser. Mat. **16** (2), 181–196 (1952).

“On the Continuation of Differentiable Functions of Several Variables,” Dokl. Akad. Nauk SSSR **82** (4), 521–524 (1952).

“On the Dirichlet Problem,” Dokl. Akad. Nauk SSSR **83** (1), 23–25 (1952).

“Some Inequalities for Entire Functions of Finite Degree and Their Application in the Theory of Differentiable Functions of Several Variables,” Usp. Mat. Nauk **7** (1), 142–144 (1952).

“Certain Problems of Approximation of Differentiable Functions: Lecture Delivered on Aug. 28, 1950,” in *C. R. I Congr. Math. Hongr.* (Akad. Kiadó, Budapest, 1952), pp. 113–124.

#### 1953

“The Second Note on the Continuation of Differentiable Functions of Several Variables,” Dokl. Akad. Nauk SSSR **88** (1), 17–19 (1953).

“Properties of Differentiable Functions of Several Variables on Smooth Closed Manifolds,” Dokl. Akad. Nauk SSSR **88** (2), 213–216 (1953).

“On the Solution of the Polyharmonic Equation by a Variational Method,” Dokl. Akad. Nauk SSSR **88** (3), 409–411 (1953).

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“Approximate Representation of Functions,” *Priroda*, No. 8, 12–20 (1953).

#### 1954

“On the Dirichlet Problem for the Circle and Half-Space,” *Mat. Sb.* **35** (2), 247–266 (1954).

“Properties of Certain Classes of Functions of Several Variables on Differentiable Manifolds and Their Application to Variational Problems,” *Acta Math. Acad. Sci. Hung.* **5**, 61–70 (1954).

#### 1956

“Compactness of Classes  $H_p^{(r_1, \dots, r_n)}$  of Functions of Several Variables,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **20** (5), 611–622 (1956).

“On the Dirichlet Problem for Regions with Corners,” *Dokl. Akad. Nauk SSSR* **109** (1), 33–35 (1956).

“Boundary Properties of Functions on Regions with Corners,” *Dokl. Akad. Nauk SSSR* **111** (1), 26–28 (1956).

“On an Inequality for Periodic Functions,” *Usp. Mat. Nauk* **11** (1), 219–222 (1956).

“On a Family of Function Spaces,” *Usp. Mat. Nauk* **11** (6), 203–212 (1956).

“Extension of Functions of Several Variables Preserving Differential Properties,” *Mat. Sb.* **40** (2), 243–268 (1956) [*Am. Math. Soc. Transl., Ser. 2*, **83**, 159–188 (1969)].

“Boundary Properties of Functions Defined on a Region with Angular Points. I,” *Mat. Sb.* **40** (3), 303–318 (1956) [*Am. Math. Soc. Transl., Ser. 2*, **83**, 101–120 (1969)].

“Approximation of Functions of Several Variables by Polynomials,” in *Proc. III All-Union Math. Congr., Moscow, 1956*, Vol. 2: *Abstracts of Survey and Section Lectures* (Akad. Nauk SSSR, Moscow, 1956), pp. 33–34.

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#### 1957

“On a Variational Problem of Hilbert,” *Dokl. Akad. Nauk SSSR* **117** (4), 573–575 (1957).

“Boundary Properties of Functions Defined on a Region with Angular Points. II: Harmonic Functions on Rectangular Domains,” *Mat. Sb.* **43** (1), 127–144 (1957) [*Am. Math. Soc. Transl., Ser. 2*, **83**, 121–141 (1969)].

“Einige Fragen der Approximation von Funktionen durch Polynome,” in *Proc. Int. Congr. Math., Amsterdam, 1954* (North-Holland, Amsterdam, 1957), Vol. 1, pp. 371–382.

“Grenzeigenschaften von Funktionen mehrerer Veränderlicher und ihre Anwendung in Variationsaufgaben,” in *Proc. Int. Congr. Math., Amsterdam, 1954* (North-Holland, Amsterdam, 1957), Vol. 1, pp. 456–457.

#### 1958

“Imbedding Theorems for Functions with Partial Derivatives Considered in Different Metrics,” *Dokl. Akad. Nauk SSSR* **118** (1), 35–37 (1958).

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“A Variational Problem of Hilbert,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **22** (5), 599–630 (1958).

“Boundary Properties of Functions Defined on a Region with Angular Points. III: Relation to a Polyharmonic Problem,” *Mat. Sb.* **45** (2), 181–194 (1958) [*Am. Math. Soc. Transl., Ser. 2*, **83**, 143–157 (1969)].

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*Quadrature Formulas* (Fizmatgiz, Moscow, 1958), 124 p. [in Russian] (translated into English, 1964 and 1966; Romanian, 1964).

#### 1959

“Some Properties of Differentiable Functions Defined on an  $n$ -Dimensional Open Set,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **23** (2), 213–242 (1959) [*Am. Math. Soc. Transl., Ser. 2*, **88**, 1–40 (1970)].

“On an Estimate of a Function with a Finite Dirichlet Integral and Its Application to Boundary Value Problems,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **23** (5), 677–696 (1959).

#### 1960

“On a Boundary Estimate for a Harmonic Function in an  $n$ -Dimensional Domain,” *Sib. Mat. Zh.* **1** (1), 78–87 (1960).

“On the Uniform Differential Properties of an Analytic Function in a Strip,” *Math. Cluj* **2** (1), 149–157 (1960).

## 1961

- “On a Property of the  $H_p^{(r)}$  Classes: Dedicated to the Memory of L. Fejer,” *Ann. Univ. Sci. Budapest, Sect. Math.* **3–4**, 205–216 (1960/1961).
- “Some Problems of Approximation of Functions by Polynomials,” in *Int. Math. Congr. Amsterdam, 1954: Survey Lectures* (Fizmatgiz, Moscow, 1961), pp. 259–281 [in Russian].
- “Concerning Inequalities between Partial Derivatives,” *Tr. Mat. Inst. im. V.A. Steklova, Akad. Nauk SSSR* **64**, 147–164 (1961).
- “On Embedding, Extension, and Approximation Theorems for Differentiable Functions of Several Variables,” *Usp. Mat. Nauk* **16** (5), 63–114 (1961) [*Russ. Math. Surv.* **16** (5), 55–104 (1961)].
- “A Series of Reports on Embedding, Extension, and Approximation Theorems for Differentiable Functions,” *Rev. Math. Pures Appl.* **6** (2), 209–258 (1961).
- “Despre teoremele de scufundare, prelungire și de aproximare a funcțiilor derivabile de mai multe variabile,” *Stud. Cerc. Mat.* **12** (1), 97–143 (1961).
- “On Some Boundary Properties of Functions of Several Variables,” in *Studies on Modern Problems of Complex Variable Theory*, Ed. by A. I. Markushevich (Fizmatgiz, Moscow, 1961), pp. 84–93 [in Russian] (with L. D. Kudryavtsev).
- “Imbedding Theorems and Their Application to Solving Elliptic Equations,” in *Certain Problems of Mathematics and Mechanics: Dedicated to the 60th Birthday of M.A. Lavrent'ev* (Sib. Otd. Akad. Nauk SSSR, Novosibirsk, 1961), pp. 87–109 [*Am. Math. Soc. Transl., Ser. 2*, **86**, 199–227 (1970)] (with L. D. Kudryavtsev).

## 1962

- “On the Boundary Properties of Differentiable Functions of Several Variables,” *Dokl. Akad. Nauk SSSR* **146** (3), 542–545 (1962) [*Sov. Math. Dokl.* **3**, 1357–1360 (1962)].
- “The First Boundary Problem for a General Linear Equation,” *Dokl. Akad. Nauk SSSR* **146** (4), 767–769 (1962) [*Sov. Math. Dokl.* **3**, 1388–1390 (1962)].
- “Correction to the Article ‘Properties of Certain Classes of Functions of Several Variables on Differentiable Manifolds’ [1953],” *Mat. Sb.* **57** (4), 527 (1962).
- “On a Problem of S.L. Sobolev,” *Sib. Mat. Zh.* **3** (6), 845–851 (1962).
- “Boundary Properties of Functions Analytic in a Strip,” *Math. Cluj* **4** (1), 123–130 (1962) (with M. K. Potapov).
- “Boundary Properties of Differentiable Functions of Several Variables,” in *Int. Congr. Math., Stockholm, 1962*, p. 101.
- “On Boundary Properties of Differentiable Functions of Several Variables,” in *Proc. Int. Congr. Math., Stockholm, 1962: Outlines of One-Hour and Half-Hour Addresses and Translations of Russian Abstracts of Short Communications* (Stockholm, 1962), p. 12.
- “A Class of Differentiable Functions of Several Variables,” in *Abstracts of II All-Union Conf. on Constructive Theory of Functions, Baku, 1962* (Akad. Nauk Azerb. SSR, Baku, 1962), pp. 119–120.

## 1963

- “Uniqueness of the Solution to a Boundary Value Problem for a Convex Region,” *Dokl. Akad. Nauk SSSR* **148** (5), 1022–1025 (1963) [*Sov. Math. Dokl.* **4**, 218–221 (1963)].
- “A Theorem on the Representation of a Class of Differentiable Functions of Several Variables by Entire Functions of Exponential Type,” *Dokl. Akad. Nauk SSSR* **150** (3), 484–487 (1963) [*Sov. Math. Dokl.* **4**, 702–705 (1963)].
- “A Proof of the Uniqueness of the Classical Solution of the First Boundary Value Problem for a General Linear Partial Differential Equation on a Convex Bounded Domain,” *Izv. Akad. Nauk SSSR, Ser. Mat.* **27** (5), 1113–1134 (1963).
- “On the Pasting of Functions of Class  $H_p^{(\alpha)}$ ,” *Usp. Mat. Nauk* **18** (5), 175–180 (1963) (with I. V. Matveev).
- “On Stable Boundary Values of Differentiable Functions of Several Variables,” *Mat. Sb.* **61** (2), 224–252 (1963).
- “A Variational Problem,” *Mat. Sb.* **62** (1), 53–75 (1963).
- “Functions with Dominant Mixed Derivative Satisfying a Multiple Hölder Condition,” *Sib. Mat. Zh.* **4** (6), 1342–1364 (1963) [*Am. Math. Soc. Transl., Ser. 2*, **102**, 27–51 (1973)].
- “On Embedding Theorems for Classes of Differentiable Functions of Several Variables,” *Stud. Math., Ser. Spec., No. 1*, 79–88 (1963).
- “Functions with a Dominating Mixed Derivative: Boundary Problems for Equations of the Hypoelliptic and More General Types,” in *Proc. Joint Sov.–Am. Symp. Partial Differential Equations, Novosibirsk, Aug. 1963* (Inst. Mat., Sib. Otd. Akad. Nauk SSSR, Novosibirsk, 1963), 10 p. [in Russian].
- “Functions with Dominating Mixed Derivatives: Boundary Problems for Equations of the Hypoelliptic and the More General Type,” in *Outlines Joint Sov.–Am. Symp. Partial Differential Equations, Novosibirsk, Aug. 1963*, pp. 185–190.

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#### 1964

“On Some Inequalities for Functions from Weight Classes and Boundary Value Problems with a Strong Degeneracy at the Boundary,” *Dokl. Akad. Nauk SSSR* **159** (3), 512–515 (1964) [*Sov. Math. Dokl.* **5**, 1535–1539 (1965)] (with P. I. Lizorkin).

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#### 1967

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#### 1968

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#### 1969

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