

Summaries of Papers Appearing in this Issue

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(These summaries may be reproduced)

JÁN LOVIŠEK, Bratislava: *Operator of a thin plate reinforced with thin-walled ribs*. Apl. mat. 18 (1973), 305–314. (Original paper.)

In the paper the solution of a thin plate reinforced with stiffening ribs is defined. A differential operator $\tilde{\Delta}^2$ (operator of a thin plate reinforced with thin-walled ribs) is introduced. For this operator properties of symmetry as well as of positive definiteness are proved on a linear subset $M \subset W_2^{(2)}(\Omega)$.

MIROSLAV ŠISLER, Praha: *Bemerkungen zur Optimierung eines gewissen Iterationsverfahrens*. Apl. mat. 18 (1973), 315–324. (Originalartikel.)

Die Arbeit befasst sich mit der Optimierung der Konvergenzgeschwindigkeit eines gewissen einparametrischen Iterationsverfahren für die Lösung eines linearen Gleichungssystems mit der zyklischen Matrix.

MIROSLAV ŠISLER, Praha: *Über ein zweiparametrisches Iterationsverfahren*. Apl. mat. 18 (1973), 325–332. (Originalartikel.)

Die Arbeit befasst sich mit einem gewissen allgemeinen Iterationsverfahren für die Lösung eines linearen Gleichungssystems mit der zyklischen Matrix. Die untersuchte Methode verallgemeinert einige bekannte Iterationsmethoden, wie z.B. Jacobi-Verfahren, Gauss-Seidelschen Verfahren, Oberrelaxationsverfahren usw.

ZBYNĚK ŠIDÁK, Praha: *Tables for two normal-scores rank tests for the two-sample location problem*. Apl. mat. 18 (1973), 333–345. (Original paper.)

The paper presents the tables of scores and of critical values for the Fisher - Yates - Terry - Hoeffding test and for the van der Waerden test for cases when the pooled sample size $m + n$ lies within the bounds $6 \leq m + n \leq 20$ and the one-sided significance level lies near 0.5%, 1%, 2.5%, 5%.

ZBYNĚK ŠIDÁK, Praha: *Tables for two normal-scores rank tests for the two-sample scale problem*. Apl. mat. 18 (1973), 346–363. (Original paper.)

The paper presents the tables of scores and of upper-tail and lower-tail critical values for the Capon test and for the Klotz test for cases when the pooled sample size $m + n$ lies within the bounds $6 \leq m + n \leq 20$ and the one-sided significance levels lie near 0.5%, 1%, 2.5%, 5%.

ZBYNĚK ŠIDÁK, Praha: *Tables for the two-sample Savage rank test optimal for exponential densities*. Apl. mat. 18 (1973), 364–374. (Original paper.)

The paper presents the tables of scores and of upper-tail and lower-tail critical values for the so called Savage test for cases when the pooled sample size $m + n$ satisfies $6 \leq m + n \leq 20$ and the one-sided significance levels lie near 0.5%, 1%, 2.5%, 5%.