

Křížek, Michal**Can the purely theoretical mathematics be applied in technical practice?** (Czech)

Zbl 1055.00503

Pokroky Mat. Fyz. Astron. 44, No. 1, 14-24 (1999).

The aim of the paper is to convince high-school teachers of the usefulness of theoretical research in various fields of mathematics. The author presents a selection of applications of mathematics in daily life. The examples concern number theory (cryptography), graph theory (electric circuits), group theory (error-correcting codes), theory of functions (tomography), probability theory (numerical solutions of problems in mechanics), theory of differential equations (minimal energy principle), approximation theory (finite elements), matrix theory (numerical analysis), optimization and information theory.

Reviewer: Jiří Rákosník (Praha)

MSC:

00A06 Mathematics for nonmathematicians (engineering, social sciences, etc.)

00A35 Methodology of mathematics

00A69 General applied mathematics

Cited in 1 Review

Keywords:

pure mathematics; applications of mathematics