

Pedagogisk Utveckling vid KTH TRITA-EDU-016

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MATEMATIKUTBILDNINGEN FRÅN GRUNDSKOLA TILL TEKNISK HÖGSKOLA I GÅR - I DAG - I MORGON

TRAINING IN MATHEMATICS FROM GRADE SCHOOL TO TECHNICAL UNIVERSITY  
YESTERDAY - TODAY - TOMORROW

Akademisk avhandling som för avläggande av filosofie doktorsexamen vid universitetet i Uppsala kommer att offentligt försvaras på universitetets lärosal V lördagen den 18 november 1978 kl 10.00.

Abstract:       Håstad, M., 1978, Matematikutbildningen från grundskola till teknisk högskola i går - i dag - i morgon. (Training in mathematics from grade school to technical university yesterday - today - tomorrow.) TRITA-EDU-016. Stockholm. A didactical analysis of some aspects of mathematics learning and teaching is made including the separation of the goals into subgoals, distinction between degrees of knowledge as to the way mathematics is used and the concept of potential of a mathematics education. A study is made of the development during the last decade of the mathematics teaching in Sweden including the introduction and declination of "New Mathematics", the consequences of the far-reaching restructuring of the school system and an analysis of which persons have the greatest influence on the development. The extent to which mathematics teaching has been reduced and the classes made more heterogeneous is measured. The mathematics teaching in higher technical education is analyzed based on interviews and questionnaires with students, teachers and examined engineers. Suggestions are given for future teaching.

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