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Cognitive processes and representations involved in applied problem solving.

Sloyer, Cliff et al., Advances and perspectives in the teaching of mathematical modelling and applications. Water Street Mathematics, Yorklyn, DE (ISBN 1-881821-05-6). 71-82 (1995).

The main purpose of this paper is the presentation and discussion of the data obtained through the observation and analysis of an activity of applied problem solving. We have in mind the identification of the conceptual models that students activated and made operational in the process of modelling a real situation. To achieve this, we considered the combination of two levels of analysis: the dynamic features of the process, concerning the interplay between mathematics and the real situation, and other more static elements, namely the delimitation of phases in student's work. (orig.)

Classification: C33