

## P. Ramez (2003). Digital simulation of sedimentation in dam reservoirs: Case of Zardezas reservoir, Algeria

Authors

M Bessenassé, A Kettab, A Paquier, G Galeas

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Description

Sedimentation rates are often very high in Algeria, reaching about 1% of the reservoir volume per year in most cases. The management of existing reservoirs and the choice of location of new reservoirs may be improved by using a numerical model that simulates sediment deposition. The proposed method was developed on a selected case for which a convenient set of data had been gathered.

Initially, the Zardezas reservoir had a capacity of 34 million m<sup>3</sup>, but presently, the capacity is only 17 million m<sup>3</sup>. Due to the levelling of two topographies in 1975 and 1986 and discharge data available from 1968 to 1993, the numerical model could be calibrated for the period 1975-1986.