

Mathematical modelling of shallow flows: Closure models drawn from grain-scale mechanics of sediment transport and flow hydrodynamics¹

Rui M. L. Ferreira, Mário J. Franca, João G. A. B. Leal, and António H. Cardoso

Abstract: Mathematical modelling of river processes is, nowadays, a key element in river engineering and planning. River modelling tools should rest on conceptual models drawn from mechanics of sediment transport, river mechanics, and river hydrodynamics. The objectives of the present work are (i) to describe conceptual models of sediment transport, deduced from grain-scale mechanics of sediment transport and turbulent flow hydrodynamics, and (ii) to present solutions to specific river morphology problems. The conceptual models described are applicable to the morphologic evolution of rivers subjected to the transport of poorly sorted sediment mixtures at low shear stresses and to geomorphic flows featuring intense sediment transport at high shear stresses. In common, these applications share the fact that sediment transport and flow resistance depend, essentially, on grain-scale phenomena. The idealized flow structures are presented and discussed. Numerical solutions for equilibrium and nonequilibrium sediment transport are presented and compared with laboratory and field data.

Key words: sediment load, sediment concentration, turbulence modelling, debris flow, river morphology, conceptual modelling, mathematical model.

Résumé : La modélisation mathématique des processus fluviaux est aujourd'hui un élément clé de l'ingénierie et de la planification des ouvrages en rivière. Les outils de modélisation des rivières devraient se baser sur des modèles théoriques tirés de la mécanique de transport des sédiments, de la mécanique des rivières et de l'hydrodynamique des rivières. Les objectifs de la présente recherche étaient : (i) décrire les modèles théoriques de transport des sédiments, déduits de la mécanique de transport des sédiments à l'échelle granulométrique et de l'hydrodynamique des écoulements turbulents et (ii) présenter des solutions à des problèmes spécifiques de morphologie des rivières. Les modèles théoriques décrits peuvent être applicables à l'évolution morphologique de rivières soumises au transport de mélanges de sédiments à granulométrie étendue sous de faibles contraintes de cisaillement et lors d'écoulements géomorphologiques comportant un transport intense de sédiments sous de fortes contraintes de cisaillement. Ces applications ont en commun de se baser sur le fait que le transport de sédiments et la résistance à l'écoulement dépendent en grande partie de la taille des grains. Les structures d'écoulement idéalisées sont présentées et examinées. Des solutions numériques pour le transport de sédiments à l'équilibre et hors d'équilibre sont également présentées puis elles sont comparées aux données de laboratoire et de terrain.

Mots-clés : transport solide, concentration de sédiments, modélisation de la turbulence, écoulement de débris, morphologie des rivières, modélisation théorique, modèle mathématique.

[Traduit par la Rédaction]

1. Introduction

Still a young discipline, fluvial hydraulics has encompassed two different attitudes in what concerns the treatment of its empirical basis, that is, empirical science and engineering practice. It can be argued that fluvial hydraulics only came into being as a true empirical science with the research program for the study of the physics of sediment

transport of H.A. Einstein between 1937 and 1950. The approach characteristic of engineering practice inherits the pre-modern heuristic attitude of observation / reproduction of apparently successful systems, as in the case of the regime method for the design of stable channels.

Until recently, fluvial hydraulics bore visible unresolved tensions between its applied science and engineering conceptions. In 1956, Thomas Blench complained that the find-

Received 10 June 2008. Revision accepted 16 February 2009. Published on the NRC Research Press Web site at cjce.nrc.ca on 3 November 2009.

R.M.L. Ferreira² and A.H. Cardoso, Instituto Superior Técnico, TULisbon, Lisbon 1049-001, Portugal.
M.J. Franca, Department of Civil Engineering and IMAR-Institute of Marine Research, Faculdade de Ciências e Tecnologia, Universidade de Coimbra, Coimbra, Portugal.
J.G.A.B. Leal, Universidade Nova de Lisboa, Lisbon, Portugal.

Written discussion of this article is welcomed and will be received by the Editor until 28 February 2010.

¹This paper is one of a selection of papers in this Special Issue in honour of Professor M. Selim Yalin (1925–2007).

²Corresponding author (e-mail: rui@civil.ist.utl.pt).

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