SECTION C: SEDIMENT TRANSPORT AUTUMN 2024

1. OVERVIEW
   1.1 Introduction
   1.2 Particle properties
   1.3 Flow properties

2. THRESHOLD OF MOTION
   2.1 Shields parameter
   2.2 Inception of motion in normal flow
   2.3 Effect of slopes

3. BED LOAD
   3.1 Dimensionless groups
   3.2 Bed-load transport models

4. SUSPENDED LOAD
   4.1 Inception of suspended load
   4.2 Turbulent diffusion
   4.3 Concentration profile
   4.4 Calculation of suspended load

Recommended Textbooks

Chanson, H., 2004, *Hydraulics of Open Channel Flow: An Introduction*, 2nd Edition, Butterworth-Heinemann, ISBN 978-0750659789

Chadwick, A.J., Morfett, J.C., and Borthwick, M., 2021, *Hydraulics in Civil and Environmental Engineering*, 6th Edition, CRC Press, 978-0367460891