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Nota di contenuto

Front Cover; Table of Contents; LIST OF FIGURES; LIST OF TABLES; PREFACE; 1. INTRODUCTION; 2. OPEN CHANNEL FLOW; 3. SEDIMENT PROPERTIES; 4. DESIGN CRITERIA FOR IRRIGATION CANALS; 5. SEDIMENT TRANSPORT CONCEPTS; 6. SETRIC, A MATHEMATICAL MODEL FOR SEDIMENT TRANSPORT IN IRRIGATION CANALS; 7. THE SEDIMENT TRANSPORT MODEL AND ITS APPLICATIONS; REFERENCES; SYMBOLS; APPENDIX A: METHODS TO ESTIMATE THE TOTAL SEDIMENT TRANSPORT CAPACITY IN IRRIGATION CANALS; APPENDIX B: METHODS TO PREDICT THE FRICTION FACTOR; APPENDIX C: HYDRAULIC DESIGN OF IRRIGATION CANALS
APPENDIX D: DESCRIPTION OF THE MAIN ASPECTS OF THE REGIME THEORY
APPENDIX E: GLOSSARY RELATED TO SEDIMENT TRANSPORT;
APPENDIX F: FLOW DIAGRAMS

Sommario/riassunto

Sediment transport in irrigation canals influences to a great extent the sustainability of an irrigation system. Unwanted erosion or deposition will not only increase maintenance costs, but may also lead to unfair, unreliable and unequitable distribution of irrigation water to the end users. Proper knowledge of the characteristics, including behaviour and transport of sediment will help to design irrigation systems, plan efficient and reliable water delivery schedules, to have a controlled deposition of sediments, to estimate and arrange maintenance activities, etc. The main aim of these lect