

WORKSHOP
ON
MODELLING OF HYDROLOGIC SYSTEMS

4-8 September, 2000

LECTURE NOTES



Organised by

Hard Rock Regional Centre
National Institute of Hydrology
Belgaum-590 001 (Karnataka)

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LECTURE TOPICS

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|-----|---|-----------------|
| 1. | Basic Hydrology | B. K. Purandara |
| 2. | Hydrological Modelling - General Concepts | A. V. Shetty |
| 3. | Data Processing using HYMOS | B. Venkatesh |
| 4. | Hydrological Problems of Hard Rock Region | B. K. Purandara |
| 5. | Rainfall-Runoff Modelling using a GIUH based Conceptual Model | Chandramohan T. |
| 6. | Ground Water Balance | C. P. Kumar |
| 7. | Regional Flood Frequency Analysis | B. Venkatesh |
| 8. | Modelling of Unsaturated Flow | C. P. Kumar |
| 9. | Infiltration and Soil Water Movement | B. K. Purandara |
| 10. | A Conceptual Model of Catchment Water Balance | A. V. Shetty |
| 11. | Estimation of Sediment Yield and Runoff from Small Watersheds using WEPP | Chandramohan T. |
| 12. | Modelling of Sea Water Intrusion | C. P. Kumar |
| 13. | Planning of Crop and Water Management Practices | A. V. Shetty |
| 14. | Runoff Curve Number and Computation of Design Flood Hydrograph using SCS Method | Chandramohan T. |
| 15. | Determination of Soil Moisture Characteristics | B. K. Purandara |
| 16. | Conjunctive Use of Surface Water and Ground Water | A. V. Shetty |
| 17. | A Topography-based Rainfall-Runoff Model (TOPMODEL) | B. Venkatesh |
| 18. | Hydrological Studies for Watershed Management | Chandramoahn T. |
| 19. | Water Quality Modelling (QUAL2E) | B. K. Purandara |
| 20. | Modflow | B. Chakraborti |
| 21. | Modelling of Groundwater Flow | B. Chakraborti |

Glossary of Modelling Terms