



ALTERNATING CYCLE MATRICES OF EVEN DIMENSIONS -- ABSTRACT -- ACTIVITIES -- ACTIVITY -- ACTIVITIES -- ACTIVITY -- GENERAL HYPOTHESES ABOUT ALTERNATING CYCLE MATRICES OF EVEN DIMENSIONS -- ABSTRACT -- ACTIVITIES -- ACTIVITY -- Hypothesis 1a -- Hypothesis 1b -- Hypothesis 2a -- Hypothesis 2b -- ACTIVITIES -- ACTIVITY -- Hypothesis 3a -- Hypothesis 3b -- Hypothesis 3c -- Hypothesis 4 -- Hypothesis 5 -- ACTIVITY -- ALTERNATING CYCLE MATRICES OF DIMENSIONS 5 BY 5.

ABSTRACT -- ACTIVITY -- ACTIVITY -- ACTIVITIES -- ACTIVITIES -- ACTIVITY -- ACTIVITY -- ACTIVITIES -- MULTIPLICATION OF POSITIVE AND NEGATIVE ALTERNATING CYCLE MATRICES OF DIMENSIONS 3 BY 3 -- ABSTRACT -- ACTIVITIES -- ACTIVITY -- ACTIVITIES -- ACTIVITIES -- 14.1. A Surprising Property of the Multiplication Tables -- ALTERNATING CYCLE MATRICES OF DIMENSIONS 7 BY 7 -- ABSTRACT -- ACTIVITIES -- ACTIVITIES -- MULTIPLICATION TABLES OF BASIC POSITIVE AND NEGATIVE ALTERNATING CYCLE MATRICES OF DIMENSIONS 7 BY 7 -- ABSTRACT -- ACTIVITY -- ACTIVITIES -- ACTIVITIES -- ACTIVITY -- CYCLIC STRUCTURE OF MULTIPLICATION TABLES -- ABSTRACT -- ACTIVITIES -- QUESTIONS FOR REFLECTION -- MULTIPLICATION TABLES OF BASIC POSITIVE AND NEGATIVE ALTERNATING CYCLE MATRICES OF DIMENSIONS 6 BY 6 -- ABSTRACT -- ACTIVITY -- ACTIVITIES -- QUESTIONS FOR REFLECTION -- OUTLINE OF A PROOF -- ABSTRACT -- MULTIPLICATION OF BASIC POSITIVE ALTERNATING CYCLE MATRICES OF EVEN DIMENSIONS: FORMULATION OF HYPOTHESES -- ABSTRACT -- ACTIVITIES -- ACTIVITY -- ACTIVITIES -- MULTIPLICATION OF BASIC POSITIVE ALTERNATING CYCLE MATRICES OF EVEN DIMENSIONS: SOME PROOFS -- ABSTRACT -- ACTIVITY -- ACTIVITY -- ACTIVITIES -- ACTIVITIES OF PROOF -- ABSTRACT -- ACTIVITY -- ACTIVITIES -- Theorem 22.1. -- Theorem 22.2. -- ACTIVITY -- Theorem 22.3. -- Theorem 22.4. -- Theorem 22.5. -- Theorem 22.6. -- Theorem 22.7. -- Theorem 22.8. -- Theorem 22.9. -- Theorem 22.10. -- Theorem 22.11. -- ACTIVITIES -- Theorem 22.12. -- Theorem 22.13. -- CYCLE MATRICES OF DIMENSIONS 6 BY 6 AND OF PERIOD 3 -- ABSTRACT -- ACTIVITIES -- ACTIVITIES -- ACTIVITIES -- ACTIVITIES -- OTHER PERIODIC CYCLE MATRICES OF DIMENSIONS 6 BY 6 -- ABSTRACT -- ACTIVITIES -- Theorem 24.1. -- PERIOD 4 -- PERIOD 6 -- ACTIVITY -- PERIODIC CYCLE MATRICES OF ODD DIMENSIONS -- ABSTRACT -- ACTIVITIES -- ACTIVITY -- THE WORLD OF THE PERIODIC CYCLE MATRICES.

ABSTRACT -- Theorem 26.1a. -- Theorem 26.1b. -- Theorem 26.2a. -- Theorem 26.2a. -- ACTIVITIES -- Theorem 26.3a. -- Theorem 26.3b. -- Theorem 26.3c. -- Theorem 26.4. -- Theorem 26.5. -- Theorem 26.6. -- DISCOVER THE WORLD OF THE CYCLE MATRICES -- ABSTRACT -- CYCLE MATRICES, GENETIC MATRICES AND THE GOLDEN SECTION -- ABSTRACT -- ACTIVITY -- BIBLIOGRAPHY -- CYCLE MATRICES AND LIKI-DESIGNS -- HELIX, CYLINDER AND CHESS MATRICES -- GENETIC MATRICES (CHAPTER 28) -- LUNDA-DESIGNS AND TRADITIONAL DRAWINGS FROM ANGOLA -- NOTE ON THE USE OF A COMPUTER -- APPENDICES -- INVERSE MATRICES -- ACTIVITY -- ACTIVITY -- DETERMINANTS -- ACTIVITIES -- TRANSFORMATIONS OF ALTERNATING CYCLE MATRICES. PERMUTATIONS -- ACTIVITY -- ACTIVITIES -- ACTIVITIES -- ACTIVITIES -- POLYGONAL AND CIRCULAR REPRESENTATIONS -- ACTIVITIES -- ACTIVITIES -- ACTIVITIES -- INDEX.

presented for those readers who do not yet know the concepts. Then, starting and experimenting with cycle matrices of low dimensions and engaging the readers in various activities, beautiful results are obtained with attractive geometrical interpretation. Gradually the results are extended to cycle matrices of higher dimensions and then generalised. A note is included for those readers who would like to use a computer in exploring cycle matrices. Two appendices give the possibility to further use the computer by exploring inverses matrices and determinants.

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Sommario/riassunto	Water balance studies for large and small river basins are the subject of this book. Here, the specific focus is on the soil and water assessment tools (SWAT) model coupled with geographic information system (GIS)

remote sensing data for a comprehensive study. Some books available in the market provide an overview of different hydrological models for water balance but not specifically for the SWAT model. This book effectively utilizes the SWAT model to study the water balances in small and large catchments with consistent competence and excellent accuracy for yearly and monthly water balance modules along with suspended sediment yield over several slope classes of the catchments. The approach is new and has been successfully utilized, as discussed in a case study on the Taleghan Catchment in Iran. These implementation models may assist as advantageous techniques for incorporated management of catchments in the direction of sustainable development. This book will help readers who wish to study all the changes related to those in water balances.

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