



Simulating, analyzing, and animating dynamical systems : a guide to XPPAUT for researchers and students /

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Monografía

Simulating, Analyzing, and Animating Dynamical Systems: A Guide to XPPAUT for Researchers and Students provides sophisticated numerical methods for the fast and accurate solution of a variety of equations, including ordinary differential equations, delay equations, integral equations, functional equations, and some partial differential equations, as well as boundary value problems. It introduces many modeling techniques and methods for analyzing the resulting equations

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Contenido: List of Figures -- Preface -- Chapter 1: Installation -- Chapter 2: A Very Brief Tour of XPPAUT -- Chapter 3: Writing ODE Files for Differential Equations -- Chapter 4: XPPAUT in the Classroom -- Chapter 5: More Advanced Differential Equations -- Chapter 6: Spatial Problems, PDEs, and BVPs -- Chapter 7: Using AUTO: Bifurcation and Continuation -- Chapter 8: Animation -- Chapter 9: Tricks and Advanced Methods -- Appendix A: Colors and Linestyles -- Appendix B: The Options -- Appendix C: Numerical Methods -- Appendix D: Structure of ODE Files -- Appendix E: Complete Command List -- Appendix F: Error Messages -- Appendix G: Cheat Sheet -- References -- Index

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