Knots and Links in Three-Dimensional Flows (Lecture Notes in Mathematics)

Robert W. Ghrist, Philip J. Holmes, Michael C. Sullivan

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The closed orbits of three-dimensional flows form knots and links. This book develops the tools - template theory and symbolic dynamics - needed for studying knotted orbits. This theory is applied to the problems of understanding local and global bifurcations, as well as the embedding data of orbits in Morse-smale, Smale, and integrable Hamiltonian flows. The necesssary background theory is sketched; however, some familiarity with low-dimensional topology and differential equations is assumed.

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