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The first three chapters are really a prelude to the core of the book, which is an exposition of the differential geometry of a symmetric, positive-definite 2-tensor (Riemannian geometry), a nondegenerate one-form (contact geometry), and a closed, nondegenerate two-form (symplectic geometry).

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First, symplectic spaces are defined (just as Euclidean geometry dealt with nondegenerate positive definite forms, here we deal with symplectic forms that are skew-symmetric); then, the basic concepts are dealt with, including a discussion of diffeomorphisms of, and certain geometric sets in, symplectic spaces.

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