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contact geometry is in many ways an odd dimensional counterpart of symplectic geometry a structure on certain even dimensional manifolds both contact and symplectic geometry are motivated by the mathematical formalism of classical mechanics where one can consider either the even dimensional phase space of a mechanical system or constant about this book this second edition divided into fourteen chapters presents a comprehensive treatment of contact and symplectic manifolds from the riemannian point of view the monograph examines the basic ideas in detail and provides many illustrative examples for the reader riemannian geometry of contact and symplectic manifolds second overview authors anahita eslami rad offers a succinct introduction to the topic focusing on its relationship with lie theory and classical mechanics covers symplectic linear algebra hamiltonian systems darboux theorem and legendrian submanifolds and more symplectic geometry is a branch of differential geometry and differential topology that studies symplectic manifolds that is differentiable manifolds equipped with a closed nondegenerate 2 form symplectic geometry is the study of symplectic manifolds that is the study of smooth manifolds equipped with a closed non degenerate 2

form more explicitly a symplectic manifold is the data m where satisfies the following properties 1 ω is an anti symmetric bilinear form on T^*M for each $p \in M$ which varies smoothly on M $2n$ with the standard symplectic form contact geometry is the odd dimensional counterpart of symplectic geometry in other words most of the facts in symplectic geometry have analogs in contact geometry for instance we have darbox's theorem for contact manifolds i.e locally $2n-1$ dimensional contact manifolds are the same

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combines ideas from dynamical systems analysis topology several complex variables and differential and algebraic geometry another way in which the connection between symplectic geometry and contact geometry is manifest is the following procedure for creating a symplectic manifold from a contact manifold let M be a contact manifold consider the subbundle of T^*M with fiber given by $S^1 \times \mathbb{R}$ in fact $S^1 \times \mathbb{R}$ under the map $t \mapsto (e^{it}, t)$ symplectic and contact homology 1 1 symplectic and contact manifolds 1 2 complex structures 1 3 floer homology 1 4 symplectic homology 1 5 contact homology 2 relation between symplectic and contact homology 2 1 exact triangles 2 2 common algebraic formalism 3 effect of legendrian surgery references 1 cambridge university press mathematics geometry and topology i want this title to be available as an ebook contact and symplectic geometry part of publications of the newton institute editor charles benedict thomas view all contributors date published december 1996 availability available format hardback isbn 9780521570862 first steps in differential geometry riemannian contact symplectic andrew mcinerney publisher springer publication date 2013 number of pages 410 format hardcover series undergraduate texts in mathematics price 79 99 isbn 9781461477310 category textbook bll rating both contact and symplectic geometry are motivated by the mathematical formalism of classical mechanics where one can consider either the even dimensional phase space of a mechanical system or the odd dimensional extended phase space that includes the time variable riemannian geometry of contact and

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