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four pairwise distant points belong to a common chain provided their cross ratio belongs to k if k is a field σ_k is said to be a proper chain geometry a proper chain geometry is a chain space below k denotes a field affine case let $d \geq 1$ $x \in A$ afterwards chain geometries over clifford algebras and their subchain geometries are examined the author applies this theory and the developed methods to the homogeneous clifford algebra regular spreads and chain geometries andrea blunck abstract using that the set of all reguli in a projective space can be considered as the chain set of a certain chain geometry we give a new proof of a theorem due to grundhofer that characterizes the translation planes associated to regular spreads the notion of chain geometries arose from efforts to unify the treatment of such different geometries as the geometry of mobius lines and circles of the euclidean plane of laguerre lie spheres and cycles and of minkowski the pseudo euclidean plane with its hyperbolas as circles the dual of a chain geometry andrea blunck hans havlicek december 5 2021 abstract we introduce and discuss the dual of a chain geometry each chain geometry is canonically isomorphic to its dual this allows us to show that there are isomorphisms of chain geometries that arise from antiisomorphisms of the underlying rings we present a method for constructing kinematic mappings for certain cayley klein geometries these geometries are described in an algebraic setting by the homogeneous clifford algebra model we begin with an analysis of distinct local chain geometries we compare the behaviors of the tangent sphere model at low and high temperatures on one hand and that of the native states of globular proteins on the other both the parabolic contact structure and the system of chains can be equivalently encoded as cartan geometries of different types the aim of this paper is to study the relation between these two cartan geometries for lagrangean contact structures and partially integrable almost cr structures in algebraic topology a k chain is a formal linear combination of the k cells in a cell complex in simplicial complexes respectively cubical complexes k chains are combinations of k simplices respectively k cubes $1 \ 2 \ 3$ but not necessarily connected clifford algebras geometric modelling and chain geometries with application in kinematics kindle edition by klawitter daniel download it once and read it on your kindle device pc phones or tablets this work demonstrates that the combination of structural clustering and motif detection in the sequence space can efficiently identify side chain motifs and map them to the loop geometries which they support both the parabolic contact structure and the system of chains can be equivalently encoded as cartan geometries of different types the aim of this paper is to study the relation between these two cartan geometries for lagrangean contact structures and partially integrable almost cr structures we present detailed analyses of their local and non local structures as well as the maps of their closest contacts we seek to reconcile the startlingly different behaviors of the two types of chains based on symmetry considerations linear chain molecules play a central role in polymer physics with innumerable industrial applications they are also ubiquitous constituents of living cells here we highlight the similarities linear chain molecules play a central role in polymer physics with innumerable industrial applications they are also ubiquitous constituents of living cells here we highlight the similarities and differences between two distinct ways of viewing a linear chain buy clifford algebras geometric modelling and chain geometries with application in kinematics by daniel klawitter online at alibris we have new and used copies available in 1 editions starting at 16 50 chain geometries chains and areas are somewhat more complex than point and text geometries the complication comes from two aspects of the smallworld geometries a single chain or area is comprised of one or more sectors which join together end to end to make the chain we then use these equations to give a characterization of projective path geometries in terms of their chains the chains projected to the surface coincide with the paths and study the chains of four examples of homogeneous path geometries a linear chain is composed of many interacting monomers that are tethered together in a railway train topology if the only interaction is self avoidance a single chain is in a coil phase whose large scale behavior is in the same class as a self avoiding walk upon adding an attractive interaction between pairs geometries and heterogeneous material composition as a precursor material we used chitosan a chemically modified form of chitin an abundant and sustainable structural polysaccharide we demonstrate the ability to control concentration dependent crystallization as well as the induction of the preferred orientation of the polymer chains through

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