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walls of buildings bridges and temples is made wider to reduce the pressure exerted by them liquid crystal substance that blends the structures and properties of the normally disparate liquid and crystalline solid states liquids can flow for example while solids cannot and crystalline solids possess special symmetry properties that liquids lack ordinary solids melt into ordinary many substances exhibit phases that have properties intermediate between those of a crystalline solid and a normal liquid these substances which possess long range molecular order but still flow like liquids are called liquid crystals the molecules within a liquid are surrounded by other molecules and are attracted equally in all directions by the cohesive forces within the liquid however the molecules on the surface of a liquid are attracted only by about one half as many molecules these materials can offer extraordinary capabilities in the synthesis of new materials catalysis and can also enable novel applications including microfluidics flexible electronics and drug delivery however surprisingly liquid metals have been somewhat neglected by the wider research community introduction liquid crystalline state is the one having the physical properties that fall in between conventional crystalline solid and isotropic fluid liquid here we show that this solid oxide skin enables many new applications for liquid metals including soft electrodes and sensors functional microcomponents for microfluidic devices self healing circuits shape reconfigurable conductors and stretchable antennas wires and interconnects keywords gallium again soft electronics it discusses the fabrication and operational principles of a full range of liquid crystal displays including dynamic scattering twisted nematic supertwisted nematic dichroic smectic a ferroelectric polymer dispersed light valve active matrix etc in detail gas definition and examples in chemistry by anne marie helmenstine ph d examples of liquids at room temperature examples of liquids include water mercury vegetable oil ethanol liquid liquid solutions nonpolar compounds do not dissolve in water the attractive forces that operate between the particles in a nonpolar compound are weak dispersion forces however the nonpolar molecules are more attracted to themselves than they are to the polar water molecules analytical biological aid catalysis etc remarkable applications of ils are reported purification and recovery of ils by using single or combined methods are discussed future aspects of ils as drugs synthesis and solubility are described quantitative applications gas chromatography is widely used for the analysis of a diverse array of samples in environmental clinical pharmaceutical biochemical forensic food science and petrochemical laboratories table 27 4 1 provides some representative examples of applications a liquid is a type of matter with specific properties that make it less rigid than a solid but more rigid than a gas 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