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Call For Papers! Submit papers to the ASTM International journal, Smart and Sustainable Manufacturing Systems edited by Dr. Sudarsan Rachuri. Why Publish with SSMS?The wettability of a surface can be determined by measuring the contact angle ( $\theta$ ) of the liquid drop over the solid surface, which is defined as the angle formed between the solid surface and the tangent drawn at the liquid drop as shown in Fig. 2 and is a measure of the angle between solid-liquid and liquid-vapor interfaces. At thermodynamic equilibrium condition between the solid, liquid ...Lactate dehydrogenase (LDH or LD) is an enzyme found in nearly all living cells (animals, plants, and prokaryotes). LDH catalyzes the conversion of lactate to pyruvate and back, as it converts  $\text{NAD}^+$  to NADH and back. A dehydrogenase is an enzyme that transfers a hydride from one molecule to another.. LDH exists in four distinct enzyme classes. This article is specifically about the NAD(P) ... "Lock and key" model. To explain the observed specificity of enzymes, in 1894 Emil Fischer proposed that both the enzyme and the substrate possess specific complementary geometric shapes that fit exactly into one another. This is often referred to as "the lock and key" model.: 8.3.2 This early model explains enzyme specificity, but fails to explain the stabilization of the transition state ...