

Abstract Details

Title: Building Science of Ancient Indian Temples

Authors: Surender Kumar, Ashish Dalal and Sitender Chillar

Abstract: Each culture and era has a distinctive construction practice which is unique and represents the ideology, development, art and architecture of that particular era or culture. In this context, the Hindu Temples are epitome of knowledge, art, architecture, culture and represents the advancement of building science of the ancient Indian subcontinent. The ideology and tradition of Indian Temple exists not only in history but also in the present era which gives a sense of flow to traditional Indian values and also creates a profound impact on the socio-economic life of the people. This paper deals with the styles, design and geometry, structural system and construction technology of the Indian temples. The distinctive architectural styles and elements of Hindu Temple are also presented in this paper. The structured systems which were prevalent in the Indian temple construction are explained in this paper. The construction technology starting from the selection of the team to planning, carving and assembling of individual pieces are also detailed in this paper. The relationship between structure stability and symmetry and proportion of Indian Temples is also presented here which explains the resistance of Indian Temples against Seismic forces and other environmental effects.

Keywords: Ancient Indian Temple, Geometry.