Invited Paper

Structural Design in the Work of Gaudí

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Abstract: The work of Gaudi embraces all the faces of architectural design. The present paper studies the analysis and design of masoury arches, washs and buildings. It is well known that Gaudi used hanging models and graphical methods as design tools. These methods can be traced back to the end of the 17th Century. In addition, it was not original the use of equilibrated, catenarian forms. What was completely original was the idea of basing all the structural design in considerations of equilibrium. Gaudi also employed amountal geometrical forms for some of his vaulus and ruled surfaces, showing a deep structural insight. Finally, he designed tree-forms of equilibrium for the supports of the vaulus in the Sagnada Familia. In the present paper Gaudi's equilibrium methods are studied with some detail, streaming their validity within the frame of Limit Analysis.

Keywoods: Structural designs Gends; Masoney arches; Vaulus; Catenarian forms; Equilibrium methods: Limit analysis

Introduction

Amount Guudi (1852–1926) was a Master Builder. His work covers all aspects of architecture: layout, ornamentation and stability. He also incorporates other arms sculpture (particularly), painting,

and photography. Any study of Gaudi's work must embrace this global concept of the project. This article considers only one of the aspects of Gaudi's works the design and calculation of structures. For Goodf, armenural design was an inregral part of architectural design. from lee initial stages. It was not restricted, as was the usual case in those days, to a more stability check. This paper will go through the different structural elements, studying the detail of Gardi's design and calculation process and arrempt to place his activity. in a historical content.

Catenary Arches

From his first projects, Gondi showed his originality and independence. In particular, he began to use systematically a type of archnot common in the western archirenoral tradition. Instead of using arches with a shape derived from the circle (roman, pointed, basker-hundle, etc.), he used arches with non-circular shapes: pumbolic or "catenary." These arches are already present in Goadfa first buildings, soon in Figures 1 and 2.





Figure 1. Catemary arches: (a) Eutomore to the Palacio Cilvell (Rafels 1929); (b) corridor in the School of the Terminas (Tarragii 1991);

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