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**Authors:** Shashi Saxena, Anupama Sharma  
**Paper Title:** Assessing Energy Preservative Measures and Substantial Parameters for Optimizing Cooling Performance in Atrium Buildings  

**Abstract:** Atrium nowadays is applied extensively by professional designers and owners to bring various benefits such as adequate daylight, circulation spaces and surfaces for landscape applications. One of the most significant problems regarding this popular architectural feature is the space conditioning of atriums which has relatively large volume compared with traditional commercial and institutional spaces. This may lead to high energy consumption, if atriums are fully conditioned unless effective design strategies are implemented. It is often very difficult to achieve high thermal comfort and low energy consumption at same time. The potential for energy conservation through severe control of indoor temperatures strengthen the examination of the applicability of the universal values of comfort temperatures recommended by international comfort standards. The aim of this paper to assess energy conservation measures, which supports to conditions of the thermal environment and has contributed to achieve architectural design features. Systematic investigation of factors for energy conservation via literature review helped to reveal about the design features which have influenced in developing comfortable environment; daylighting, acoustics, natural ventilation and thermal control have been identified as environmental factor in rolling out the architectural features in atriums. The result would help to optimize at initial design stage the controlled environment and would provide valuable feedback to help architects and designers to identify the most energy efficient atrium building type.

1. **Keywords:** Atrium, Energy Conservation, Daylight, Thermal Environment.

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10. “Role of atrium geometry in building energy consumption_ the case of a fully air-conditioned enclosed atrium in Cold Climates, China.”.  

**Authors:** K. Gowthem Raj, J. Selvakumar, M. Amarnath, K. Balamurugan, N. Sekar Pandiyan  
**Paper Title:** Study and Application in Renovation of Hill Transport  

**Abstract:** To study and analyse the existing pavements by means of using several methods. Generally, it is an idea to renovate the pavement when there is some possibilities. This study is concerned to predict the existing road in hill station. The work initially starts from survey on existing pavement and their condition ie., it may include culvert ,pavement dimensions, road width etc., After the process of surveying we use LS and C.S method to find the road level. It may help to make the horizontal alignment upon the road. Finally, the designing process is carried out. At pavement design, we consider number of conditions over the project. This study mainly notifies whether any possibility to renovate the existing roads and also we used some software to analyse the data regarding the pavement. The application of this project are 1.Minimum distant 2.Easy accessible 3.Time consideration. Apart from that we have refered several journal to gain some ideas in renovation and also gave possible advantages over renovation of pavement.

2. **Keywords:** Renovation, Pavement, Hill station, Horizontal alignment, Survey.

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2. “Road Renovation and Maintenance: a case study of East Coast Road Project” by ThillaiRajan A.