

Development of internet based software program to design reinforced concrete slabs

Although present day electronic revolution has rightfully found its place in civil engineering, engineers are yet to use this latest technology efficiently and reliably. It seems that the much needed experience and use of new technology is not being achieved to the extent where it can actually improve the final solution.

The internet based user friendly programs can help to improve the usage of computer technology among engineers while saving lot of time on repetitive calculations. It is almost at no cost and engineers who are not very much familiar with designs also will be benefited. This program was basically aimed to assist especially the senior engineers who are interested in this type of design but not willing to refer to basics and carryout manual calculations.

The program was designed to solve three most common structural engineering problems identified as slab, beam and column design. It is capable of producing results as designed dimensions and reinforcement data graphically or numerically for a selected problem. The design was based on Structural use of concrete published as BS 8110 Part 1 (Code of practice for design and construction).