



## Building Materials, 1/e

Ravi Kumar Sharma

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### About the Book

*Building Materials* imparts in-depth knowledge to the students about the subject. It deals with all the relevant information regarding Stones, Bricks and Tiles, Lime, Cement, Aggregates, Mortar and Concrete, Timber, Metals, Paint and Varnish, Bituminous Products, and Miscellaneous Materials. The illustrations and sketches of the materials and techniques have been included as per relevant Indian standards. Suitable concrete mix design techniques have been illustrated with appropriate examples. An exclusive chapter has been included on the utilization of waste materials in construction. The material characterization techniques generally used by the engineers have been discussed with suitable illustrations to provide basic knowledge. Sufficient number of questions are given at the end of each chapter to enable the students to prepare for the examinations.

### Salient Features

Thorough understanding of construction materials.  
 Knowledge of designing concrete mix.  
 Utilization of waste materials in construction.  
 Material characterization using X-ray diffraction and SEM techniques.  
 Illustrations containing the photographs/figures.

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1. Stones
2. Bricks and Tiles
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### About the Author

**Ravi Kumar Sharma** :- Professor of Civil Engineering at the National Institute of Technology Hamirpur (HP), obtained his Ph.D. in 1999 from Indian Institute of Technology, Roorkee. He is an experienced teacher, researcher and consultant with more than 30 years of experience. He has published 80 research papers, completed 12 research projects and provided consultancy to more than 150 projects.