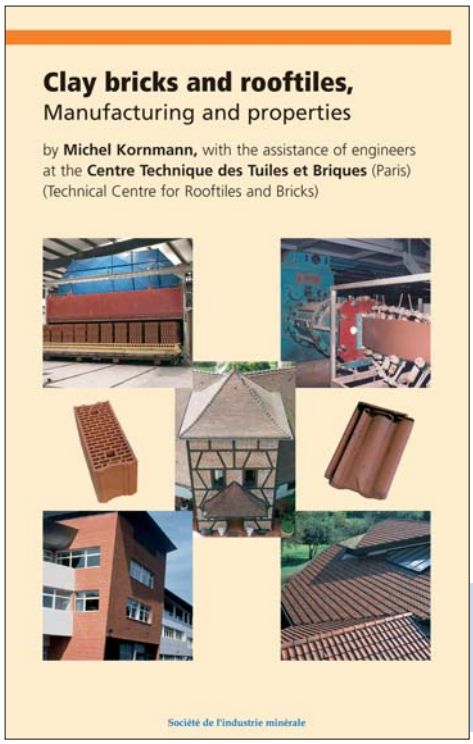
Clay bricks and rooftiles
Manufacturing and properties

by Michel Kornmann

with the assistance of engineers at the Centre Technique des Tuiles et Briques (Paris)
(Technical centre for rooftiles and bricks)



The objective of this book is to outline the present state of the science and up-to-date technology in the heavy clay industry.

The book deals with raw materials (clay in the quarry and additives in the clay mixture), process fundamentals (mixture preparation, product shaping, drying, firing, etc.), machines and plants, and it also reviews the impact on the environmental issues and the industry's search for quality.

The mechanical, thermal, hydric and durability properties of heavy clay products are also examined. The perspectives that new technological developments offer to users, and the recent product evolutions are also reviewed. Finally, the new European standardisation and the CE marking are briefly described.

This book is, above all, for those with a basic scientific knowledge and who are not familiar with this material, but use it or have an interest in it: ceramic engineers, building engineers and technicians, architects, real estate experts, students, and anyone concerned by tiles and bricks.

This book is a collective work: it was written by Dr Michel Kornmann, former Technical Director of the CTTB* (Technical Centre for roof Tiles and Bricks in Paris), with the help of a number of engineers from the CTTB.

* Now CTMNC (Technical Centre for Natural Construction Materials)

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