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MATHEMATICS

# JEE

EDUCATIVE

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K D Joshi

The Joint Entrance Examination (JEE) can be considered as one of the toughest examinations conducted in India, which it has to be as it is the gateway to one of the premier institutes of learning – the IITs. It has thus inevitably led to keen competition. While such a competition is not bad in itself, the subsequent mechanisation and commercialisation of the preparation for it has some undesirable consequences. Probably the most undesirable side-effect is that in the mad rush to solve problems, the educative value of a problem is often lost. The thought process of students is thus skewed into solving problems (mostly by analogy) without thoroughly understanding the basic concepts lying behind the problems and without a corresponding development of the thinking ability. Consequently, they are often unable to offer logical negation of a statement, even though they are intellectually capable of it.

This book is an attempt to lay before the students both the concepts as well as the process of solving problems at the JEE. The problems have been collected mostly from JEE papers ranging over a period of two decades. The thrust is not so much in solving the problems as in assimilation of the theory behind it and learning a few related new concepts. The solutions then come as natural corollaries. It also contains some helpful tips aimed at sharpening the thinking ability and increasing the mathematical maturity of the student.

**K D Joshi** obtained his Ph D in Mathematics from Indiana University, USA in 1972 and has been teaching mathematics at IIT Bombay since 1975. He has been involved with the conduct of the Joint Entrance Examination (JEE) in various capacities for over two decades. He has many books to his credit one of which is *Calculus for Scientists and Engineers* published by Narosa Publishing House in 2002.

**Cover: OSDATA**

Rs 000.00



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K D Joshi: *Educative JEE Mathematics*

