

Seminar on 'Recent Advances in Materials Research'

FOREWORD

In commemoration of the Silver Jubilee Celebrations of the Indian Institute of Technology, Bombay, a Seminar on 'Recent Advances in Materials Research' was organised at Bombay on 20-21 December, 1982. This Seminar was sponsored by the Board of Research in Nuclear Science, Defence Research and Development Organisation, Department of Electronics, Indian National Science Academy, Department of Science and Technology and Indian Institute of Technology, Kanpur.

The aim of the seminar was to provide an overview of the current research and development activities in the areas of high strength and high temperature materials and magnetic materials.

The sessions on high strength and high temperature materials covered current topics on composite materials, special steels and superalloys, high strength materials, high temperature ceramics and fibres and matrices. At the sessions on magnetism and magnetic materials, the topics covered were Verwey transition, amorphous magnetic materials, transformer steels, ferrites and garnets, rare-earth alloys, domain wall dynamics, spin glasses, surface magnetism, coexistence of magnetism and superconductivity and novel applications of magnetic materials.

The seminar was attended by 15 specialists from abroad and more than 200 participants from within the country. The programme comprised 40 invited talks and 34 contributed papers. The invited talks were published in a book entitled 'Recent Advances in Materials Research' by M/s. Oxford and India Book House, New Delhi. This volume of the Bulletin of Materials Science comprises some of the contributed papers presented at the Seminar.

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