

# PROCEEDINGS OF THE INDIAN NATIONAL SCIENCE ACADEMY

No. 6

November 1978

Vol. 44

## CONTENTS

	<i>Page</i>
<i>Darashaw Noshervanji Wadia Medal Lecture—1977 : Himalaya, its Rise and Plate Tectonics</i> by A. G. JHINGRAN .. .. .	317
<b>CHEMISTRY</b>	
Formal Redox Potentials of Ferricyanide-Ferrocyanide Couple in Certain Non-Aqueous Water Mixtures by S. P. RAO, S. R. SINGH and S. R. BANDAKAVI .. .. .	333
<b>GEOLOGY</b>	
Geomorphological Studies for Exploration of Ground Water in Rajasthan Desert by R. S. MURTHY and S. PANDEY .. .. .	336
<b>NUCLEAR MEDICINE</b>	
Estimated Dose to Bone and Whole Body <i>Via</i> <sup>40</sup> Ca and <sup>31</sup> P for 14.1 MV Neutrons by K. K. MANOCHA and R. K. MOHINDRA .. .. .	344
<b>PHYSICS</b>	
Temporal Growth of Filamentation Instability of a Gaussian Laser Beam in a Plasma by M. S. SODHA, F.N.A., S. C. KAUSHIK, R. P. SHARMA and GOVIND .. .. .	349
Forced Torsional Vibrations of a Semi-Infinite Piezoelectric Medium of (622) Class by H. S. PAUL and VENKATESWARA SARMA .. .. .	362
Index .. .. .	369