

**THE COSMIC DYNAMO**

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The 157th IAU Symposium on 'The Cosmic Dynamo' was the first which was entirely dedicated to dynamo processes, which are fundamental on all cosmic scales. Dynamo theory concerns one of the few truly key questions of recent cosmic physics. A complicated interplay of rotation, magnetism and turbulence determines stellar and galactic activity for almost all the short and medium time scales. Behind these multiform phenomena, the cosmic dynamo works in various guises, all involving inductive and dissipative equilibria in rotating turbulent cosmic plasmas. This book presents an up-to-date survey on investigations and results of dynamo theory and related observations, and is intended for graduate scientists working in the field of cosmical magnetism and the related problems, especially convection, turbulence and, more general, nonlinear physics.