

Electric and magnetic activity of the central nervous system

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Résumé ou extrait : These Proceedings include the Technical Evaluation Report, the Keynote Address, the 37 papers and ensuing discussions from the Symposium sponsored by the AGARD Aerospace Medical Panel held in Trondheim, Norway from 25-29 May 1987. The physical and mental demands imposed on aircrew operating new and future high performance combat aircraft will be severe. The heavy loads of information that aircrew operators receive from the different aircraft sensors must be assimilated and managed in a timely and efficient manner. Severe physiological stresses will be imposed by the environment of rapid onset, high sustained G-accelerations in which these aircraft operate. The purpose of this Symposium was to explore the feasibility of using the electrical potentials and magnetic fields of the central nervous system (CND) as objective measures of the human condition under such severe mission demands. The papers addressed a variety of topics including: (a) the computer-aided imaging of background and evoked brain electrical activity, (b) the new technique of magnetoencephalography, (c) the functional significance of P300, CNV, and EEG events as indices of behavior, (d) the use of

physiological measures for indexing in-flight and simulator mission effectiveness; and (e) the effects of acceleration, drugs and diseases on CNS activity. These proceedings will be of interest to those involved with the health care and the effective use of aircrew in flight operations

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