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ELF and VLF Electromagnetic Field Effects

By Michael Persinger

Springer. Paperback. Book Condition: New. Paperback. 316 pages. Dimensions: 9.0in. x 6.0in. x 0.8in. Recent emphasis upon the importance of the physical environment has made science and the public even more cognizant of the many components of the biosphere. While much attention has been given to ionizing electromagnetic stimuli which causes blatant and unalterable changes in biological systems, relatively little research has been concerned with those electromagnetic signals whose frequencies overlap with time-varying processes in living organisms. Extremely low frequency (ELF) electromagnetic fields can occur as waves between about 1 Hz to 100 Hz or as short pulses within this range of very low frequency (VLF) and higher frequency sources. The natural occurrence of ELF signals is associated with weather changes, solar disturbances and geophysical ionospheric perturbations. Man-made sources have also been reported. Certain physical properties of ELF signals make them excellent candidates for biologically important stimuli. Unlike many other weather components, ELF signals have the capacity to penetrate structures which house living organisms. ELF wave configurations allow long distance propagational capacities without appreciable attenuation of intensity, thus making them antecedent stimuli to approaching weather changes. Most importantly, ELF signals exhibit the frequencies and wave forms of...



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