Abstracts

Electric current and electric field induced in the human body when exposed to an incident electric field near the resonant frequency" and "Electric fields induced in cells..." (Comments)

G.D. Lapin and A.W. Guy. "Electric current and electric field induced in the human body when exposed to an incident electric field near the resonant frequency" and "Electric fields induced in cells..." (Comments)." 2001 Transactions on Microwave Theory and Techniques 49.4 (Apr. 2001, Part I [T-MTT]): 734-736.

The authors comment on the work of R.W.P. King (ibid. vol. 48, pp. 1537-1543 & 2155-2159, 2000). Using a cylindrical model of the human body, King has performed a relatively accurate analysis of the electromagnetic fields within the adult human body due to incident radio frequency energy at 60 MHz. The development of this model is well reasoned and produces results that are believable, though limited in accuracy and precision by the choice of method. However, the conclusions about biological effects due to this analysis are unsupported and flawed. King is perhaps unaware of the extensive work that has been done in this collateral field over the last two decades. His choice of five references from a field of over 1000 independent studies misrepresents the consensus of the scientific community with regard to the potential for RF energy to cause disease. Thus, the message imparted by these papers can easily be misinterpreted to imply that an imminent danger exists, where one does not.

❑ Return to main document.