

There is a strong relationship between gravity modification and High-Frequency Gravitational Waves (HFGWs as defined as having frequencies greater than 100kHz by Hawking, S.W. and Israel, W. *General Relativity: An Einstein Centenary Survey*, Cambridge University Press, Cambridge, 1979, p.98). Perhaps the most cogent expression of the relationship is given in the well respect and internationally recognized authoritative treatise by L. D. Landau and E. M. Lifshitz (*The Classical Theory of Fields*, Fourth Revised English Edition, Pergamon Press, 1975, p. 349). They state: “Since it has definite energy, the gravitational wave is itself the source of some additional gravitational field... its field is a second-order effect ... But *in the case of high-frequency gravitational waves the effect is significantly strengthened ...*” (emphasis added). Thus it is possible to change the gravitational field near an object by means of HFGWs and move it.