

Graviosmotic effects

Marian Kargol, Armin Kargol

We present a physical interpretation of graviosmosis. Our analysis is based on various experimental studies, mostly by means of volume flux measurements or interferometric studies. We describe the graviosmotic effect within the framework of the Kedern-Katchalsky formalism. We discuss various related phenomena like: graviosmotic water uptake against the gravity, graviosmotically induced water circulation and the asymmetry of graviosmotic transport.