3.7. Electrostatic Potential

3.7a. On applying a voltage, the change in the electrostatic potential follows the electrochemical potential closely

(a) never
(b) always
(c) only if the medium has a very high density of states
(d) only if the medium has a very low density of states
(e) the two potentials are completely unrelated

3.7b. The slope of the electrostatic potential is not always a good indicator of the local resistance because

(a) it is smeared out by a screening length
(b) it can be non-zero even with no applied voltage
(c) BOTH (a) and (b)
(d) NEITHER (a) or (b)
(e) none of the above, it is always a good indicator