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## A quantitative description of the kinetic and concentration regularities of bioanalytical techniques

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Statement of the Problem: e high a nity and speci city of biological receptors create both the demand and the intensive development of analytical systems based on their use. erefore, the development of theoretical concepts of such systems functioning, studies of quantitative regularities for the reactions occurring within them and the interrelations between the parameters of bioreceptor reactions and analysis with their use, have become key fundamental tasks of bioanalytical chemistre Although several proposed mathematical models have described various bioassays and biosensors, most of those mode consider bioreceptor interactions in the approximation of equilibrium conditions. Due to this limitation, various e ects that arise under nonequilibrium conditions remain outside existing studies.

Methodology & eoretical Orientation: Any bioanalytical technique is based on the a ne recognition reaction (A+R QAR),

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