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the real world we typically know neither the diode voltage nor the diode current directly transcendental equations are most often the sad result instead of applying numerical techniques we will find it much faster albeit slightly less accurate to apply approximate circuit models transient solutions fulfil the initial conditions and dominate at sufficiently short times their character does not allow the reduction of system 2 to an effective diffusion equation in other words no effective diffusion coefficient can be calculated in this case since both the reaction s and the diffusion determine the time development

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