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Biological signaling systems often rely on

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macromolecules that
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modifications that
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are mutually
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compatible. Thus,
they can exist in a
very large number of
functionally different
states. Modeling such
multi-state systems

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simplest version, the Lorentz nonlocal dielectric model [10], models dielectric correlations that decay with a characteristic length W from the short-range optical permittivity ϵ_0 , $(\epsilon(r, r_0)) =$

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$$\frac{1}{W} \int_{r_0}^r \frac{1}{r} \frac{dW}{dr} e^{-jrr} dr + \frac{1}{W} \int_{r_0}^r \frac{1}{r} \frac{dW}{dr} e^{-jrr} dr = \frac{1}{W} \int_{r_0}^r \frac{1}{r} \frac{dW}{dr} e^{-jrr} dr; (2)$$

Because nonlocal models lead to

integrodifferential equations of the form $\int_{r_0}^r \frac{1}{r} \frac{dW}{dr} e^{-jrr} dr = \frac{1}{W} \int_{r_0}^r \frac{1}{r} \frac{dW}{dr} e^{-jrr} dr; (3)$

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