GLOSSARY OF SYMBOLS:

\( \varepsilon_0 \)  Static dielectric constant
\( \varepsilon_\infty \)  Dielectric constant at high frequency
\( \varepsilon^* \)  Complex permittivity \((\varepsilon^* = \varepsilon' - j\varepsilon'')\)
\( \varepsilon' \)  Dielectric dispersion
\( \varepsilon'' \)  Dielectric loss
\( \mu \)  Dipole moment
\( h \)  Plank's constant
\( n \)  Refractive index
\( k \)  Boltzmann constant
\( R \)  Universal gas constant
\( c \)  Velocity of light
\( \omega \)  Angular frequency
\( \tau \)  Relaxation time
\( \alpha, \beta \)  Distribution parameters
\( g \)  Kirkwood correlation factor
\( g_{\text{eff}} \)  Kirkwood effective correlation factor
\( \varepsilon^E \)  Excess permittivity
\( 1/\tau^E \)  Excess inverse relaxation time
\( \Delta H \)  Activation energy
\( R_1(t) \)  Reflected pulse without sample
\( R_x(t) \)  Reflected pulse with sample
\( p(t) \)  Subtracted pulse \([R_1(t) - R_x(t)]\)
\( q(t) \)  Added pulse \([R_1(t) + R_x(t)]\)
\( p(\omega) \)  Fourier transform of \( p(t) \)
\( q(\omega) \)  Fourier transform of \( q(t) \)
\( f \)  Linear frequency
\( \rho^* \)  Complex reflection coefficient
d  Effective pin length
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