|  |  |
| --- | --- |
| CONSTANTS |  |
| Time when strain becomes constant (sec) |  |
| Strain rate (aka rate of strain increase) until (/sec) |  |
| Poisson’s ratio |  |
| Young’s modulus (kPa) |  |
|  |  |
| FITTED PARAMETERS |  |
| Viscoelastic parameter |  |
| Viscoelastic parameter |  |
| Poisson’s ratio |  |
| Young’s modulus (kPa) |  |
| Gel diffusion time (sec) |  |
|  |  |
| SPECIAL VARIABLES |  |
| Time-space (unitless) |  |
| Laplace-space (unitless) |  |
|  |  |

**All other variables should be defined from the above.**

Note- **S** or **Sij** is shorthand for the matrix of all the S’s. Thus, a function of **S** is a function of actually 9 S parameters (plus any other additional parameters).

## EQUATIONS

This is actually the final equation give first. All the other equations are plugged into this.

Divided by to make equation formatted better



Confirm below simplification for Equation 7

For the fitted parameter

## Helpful Laplace Transform Table for Reference

