The relative resistance is

$$\frac{R}{R_{o}} = \frac{\rho}{\rho_{o}} \frac{L}{A} \frac{A_{o}}{L_{o}} = \frac{\rho}{\rho_{o}} \left(\frac{L}{L_{o}}\right)^{2}$$

Consider a uniform stretch $L = L_o + u_y(t - t_o)$ where u_y is the relative lateral particle velocity of the slab ends; then R/R_o has a quadratic dependence on time. Let $u_y = \alpha u_x$ where $\alpha = 10$ milliradians, $u_x = 0.5$ mm/ μ sec, $L_o = 1$ mm, $\frac{\rho}{\rho_o} = 1$. Then $R/R_o = (1.005)^2 = 1.01$ in 1 microsecond of stretch. This is not enough to account for observed effects in 73-051 and 73-056.

Stretching will also cause plastic deformation and hence additional resistance changes due to defect generation. Suppose $\Delta\rho/\rho_0$ is proportional to work of plastic deformation according to Saada's relation (Sec. IV.E); and that tensile stress is linearly related to strain ϵ . Then $\rho \propto W_{PD}$ = a ϵ + b ϵ^2 ; for tensile deformation ϵ = $(1-2\nu)\Delta L/L$ where ν is Poisson's ratio. This implies that again the resistance would have quadratic time dependence. Since magnitude of resistivity change generated by deformation at these strain rates is not known, the mechanism proposed here represents only a possible source of the anomalous signals in shots 73-051 and 73-056.

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Consider a uniform stretch $L_0 + u_0(t-t_0)$ where is the relative lateral particle velocity of the slab ends; then R/R, has a quadratic describes on time. Let $v_{i,j} - \alpha u_{i,j}$ where $\alpha = u_i$ willications, $u_{i,j} = 0$. In where $\alpha = u_i$ willications, $u_{i,j} = 0$. In where $\alpha = u_i$ willications are $\alpha = 1$. Then the following the $\alpha = 1$ and $\alpha = 1$. Then the respective affects in M and M affects in M are respectively affects in M

APPENDIX C

DETAILS OF VARIATIONS IN EXPERIMENTAL PROCEDURE

Suppose Ar. s. is preparational to work of plastic deformation according to Basda's relation (Sec. IV.W): and that tensile atreas Ir linearly related to strain (4. Then s of Wpp = 1 as + bs'; for consile deformation set (1-2.) AL/E where it Is Tolsson's rate. This implies that ensite the resistance would have quadratic tensile that dependence. Since magnitude of restativity chang generated by deformation at these strain and rates is not known, the machenism proposed here represents only a possible source of the anomalous signals in short 75-551 and a possible source of the anomalous signals in short 75-551 and