u	radial component of fluid	Γ	gas constant
	velocity	γ	ratio of specific heats
V	non-dimensional axial	σ	magnetic field variation
	component of fluid velocity		index.
v	azimuthal component of fluid	μ	magnetic permeability
	velocity	<i>x</i>	arbitrary function of r and t
$ u^*$	the specific volume	λ	constant
W	shock velocity	8	constant
W	axial component of fluid	ξ	similarity variable
	velocity	ζ	vorticity vector
W_a	constant	$(\zeta_r, \zeta_\theta, \zeta_z)$	components of vorticity
(r,θ,z)	cylindrical coordinates	(317)07 327	vector
	•	Subscripts	
Greek Letters		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
		0	immediately ahead the shock
ρ	the fluid density	1	immediately behind the
δ	constant		shock
ϕ	non-dimensional azimuthal	Superscript	
	component of fluid velocity		
α	constant	•	derivative with respect to t
β	ratio of density across the		
•	shock front		