THE TITLE OF YOUR PAPER GOES HERE IT COULD NEED TWO LINES

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ABSTRACT

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NOMENCLATURE

a	characteristic length
p	pressure
$\mathbf{u}$	velocity
ρ	density
μ	dynamic viscosity

INTRODUCTION

The introduction goes here.

MODEL DESCRIPTION

Example of Subheading

Here is how to produce a numbered equation under a second level heading (James and Ying, 1998).

$$\frac{\partial \rho}{\partial t} + \nabla \cdot (\rho \mathbf{u}) = 0 \qquad (1)$$

$$\frac{\partial \rho \mathbf{u}}{\partial t} + \nabla \cdot (\rho \mathbf{u}\mathbf{u}) = -\nabla p + \nabla . \mu \nabla \mathbf{u} + \mathbf{F}_L \qquad (2)$$

Example of Subsubheading

This is how Luke (1998) produced an unnumbered equation under a third level heading.

$$\mathbf{J} = \sigma(\mathbf{E} + \mathbf{u} \times \mathbf{B})$$
$$\nabla \times \mathbf{B} = \mu_o \mathbf{J}$$

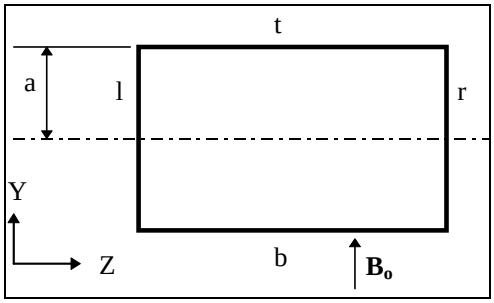

Figure 1: Schematic diagram of geometry.

RESULTS

Here is an example of a table which has been fitted into two-column format.

CFD Run	ω	N_D	χ_α/χ_β	$\frac{a}{b_s}$	Γ_α	Γ_β
First α						
AA01	0.0391	0.820	0.9469	0.041	0203	0.123
AA02	0.8741	0.553	0.9528	0.399	7215	0.283
AA03	0.3654	0.958	0.5304	0.807	3049	0.350
AA04	0.8548	0.203	0.8170	0.332	0561	0.556
AA05	0.8676	0.215	0.7895	0.509	9207	0.123
AA06	0.1763	0.409	0.0698	0.995	7991	0.123
First β						
BA11	0.9654	0.443	0.5503	0.927	9257	0.284
BA12	0.6548	0.191	0.5146	0.337	3357	0.042
BA13	0.9476	0.535	0.2801	0.939	9389	0.108
BA14	0.3063	0.071	0.3640	0.454	4534	0.896
BA15	0.3982	0.091	0.9544	0.521	7331	0.911
BA16	0.9734	0.161	0.0897	0.388	1144	0.144
BA17	0.8912	0.123	0.4564	0.198	7744	0.912
BA18	0.2312	0.723	0.0218	0.120	6612	0.893
BA19	0.1243	0.107	0.8490	1.289	2859	0.698
Second α						
AB26	0.8694	0.559	0.2615	0.804	8204	0.550
AB27	0.1730	0.950	0.3615	0.539	5539	0.514
AB28	0.6728	0.203	0.6437	0.980	9580	0.280
AB29	0.2124	0.210	0.9917	1.233	2033	0.364
AB30	0.9223	0.049	0.5357	1.250	2150	0.849
AB31	0.1275	0.132	0.9714	2.099	0499	0.358
AB32	0.3576	0.146	0.8301	3.516	5616	0.134

Table 1: Modelling conditions.

CONCLUSION

Conclusion goes here.

REFERENCES

JAMES, T. and YING, A.C., (1988), "A new technique for producing stencils", *Proc. Int. Cong. on Stencils*, ABCD, Melbourne, Australia, February 29-31.

LUKE T., (1988), "A new technique for Stencil publishing", *J. Stencils*, **5,** 179-221.

APPENDIX A

This is an Appendix.