**Title (Arial, Font 18, Bold)**

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Keywords: At least four keywords; In alphabetical order; Separated by semicolon; Design of experiments (Arial, font 7, upper case at the beginning of each keyword)

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Abstract Abstract must be written in Arial, font 9.5. Abstract should not exceed 150 words. In present study, as a basic step for modeling the fatigue behavior of an extruded Al alloy cylinder, the fatigue crack growth data of the alloy was collected in two orientations. Microstructural analysis revealed that the material had recrystallized grains and clusters of constituent particles aligned in the direction of extrusion. Fatigue life of the samples revealed a shorter fatigue life representing a higher fatigue crack growth rate in transverse direction.

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1. Introduction (Arial, Font 12, Bold)

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## 2. Section (Arial, Font 12, Bold)

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Table 1. Material properties of SCP10.

|  |  |
| --- | --- |
| Young’s modulus (GPa) | 210 |
| Poisson’s ratio | 0.3 |
| Yield Strength (MPa) | 433 |
| UTS (MPa) | 460 |



Fig. 1. Flow chart for the correction of the roll forming process design.

For instance, Eq. (1) is used to calculate a response surface as follows:

 (1)

 (2)

where xi denotes the design variables, nd is the number of design variables, βi is the unknown coefficient, and  denotes the design matrix comprising experimental points. The settings of the font size to prepare the equations are:

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3. Conclusions

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Acknowledgments

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Nomenclature------------------------------------------------------------------

*E* : (Effective) work potential

*E0* : Exergy

*E00* : Energy of a system

K : Kelvin temperature scale

S : Entropy

T : Temperature or Celsius temperature scale

W : Effective work

References

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1. C. S. Kim, K. S. Hong, and M. K. Kim, Nonlinear robust control of a hydraulic elevator, *Control Engineering Practice*, 13 (6) (2005) 789-803.
2. R. S. Chandel and S. R. Bala, Effect of welding parameters and groove angle on the soundness of root beads deposited by the SAW process, *Proc. of Trends in Welding Research*, Gatlinburg, Tennessee, USA (1986) 479-385.
3. S. Kalpakjian and S. R. Schmid, Manufacturing Processes for *Engineering Materials*, 2nd Ed. Addison-Wesley Publishing Company, New York, USA, (1992).

**Author information**

 Brief biographies and photos (25 x 30 mm) of authors must be described. Authors are required to follow the style of writing the author’s biography as below.

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