

$$\text{Maximize } \frac{5}{11} \mu_1 + \frac{3}{11} \mu_2 + \frac{2}{11} (\mu_3 + \mu_4) \\ + \frac{1}{11} (\mu_5 + \mu_6 + \mu_7)$$

Subject to

$$\mu_1 = \frac{(x_1 + x_2 + x_3) - 800}{1000 - 800}$$

$$\mu_2 = \frac{(x_1 + 1.5x_2 + 2.2x_3) - 1100}{1250 - 1100}$$

$$\mu_3 = \frac{2550 - (2x_1 + 3x_2 + 4x_3)}{2550 - 1000}$$

$$\mu_4 = \frac{5200 - (3x_1 + 5x_2 + 10x_3)}{5200 - 2000}$$

$$\mu_5 = \frac{x_1 - 280}{300 - 280}$$

$$\mu_6 = \frac{x_2 - 265}{300 - 265}$$

$$\mu_7 = \frac{x_3 - 260}{300 - 260}$$

$$x_i, \mu_j \geq 0 \quad (i = 1, 2, 3; j = 1, 2, \dots, 7)$$

$$0 \leq \mu_j \leq 1 \quad (14)$$

4.2. Computational Results

Using the data presented, the proposed weighted fuzzy goal programming model is tested using LINDO [12] software package and the results are shown in Table 2:

$$x_1 = 280.5, x_2 = 265, x_3 = 260$$

$$\mu_1 = 0.0275, \mu_2 = 1, \mu_3 = 0.999,$$

$$\mu_4 = 0.135, \mu_5 = 0.025, \mu_6 = 0, \mu_7 = 0.$$

Table 2: Interpretation of the Results

Goal	Description	Fuzzy Target Level	Satisfied	Achieved Value
1	Strategic aim	Tolerance limit of 800	Partial	805.5 ($x_1 + x_2 + x_3$)
2	Profit	Tolerance	Yes	1250

		limit of 1100		
3	Minimize extra finishing and furnace hours	Tolerance limit of 2550	Partial	2396
		Tolerance limit of 5200	Partial	4766.5
4	No. of cups manufactured	A. – Tolerance limit of 280	Partial	280.5
		B. – Tolerance limit of 265	Partial	265
		C. – Tolerance limit of 260	Partial	260

5. CONCLUSION

In this paper, we have solved the production planning problem through the weighted fuzzy goal programming (WFGP) technique representing the relative importance of each goal. Two major objectives with imprecise target values are optimized through fuzzy goal programming. The goals are relatively balanced by different goal programming variants. The similar technique could be used for short-term and intermediate production planning in other continuous process industries. The number of fuzzy goals can be increased based on the decision maker's desirability.

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Proc Of The Third Berkeley Symp On Volume 4

Tao Wei



Proc Of The Third Berkeley Symp On Volume 4:

Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability Jerzy Neyman, 1967

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Kiefer, 1984-12-20 From the Preface Jack Kiefer's sudden and unexpected death in August 1981 stunned his family, friends and colleagues. Memorial services in Cincinnati, Ohio, Berkeley, California and Ithaca, New York, shortly after his death brought forth tributes from so many who shared in his life. But it was only with the passing of time that those who were close to him or to his work were able to begin assessing Jack's impact as a person and intellect. About one year after his death an expression of what Jack meant to all of us took place at the 1982 annual meeting of the Institute of Mathematical Statistics and the American Statistical Association. Jack had been intimately involved in the affairs of the IMS as a Fellow since 1957, as a member of the Council, as President in 1970, as a Wald lecturer in 1962 and as a frequent author in its journals. It was doubly fitting that the site of this meeting was Cincinnati, the place of his birth and residence of his mother, other family and friends. Three lectures were presented there at a Memorial Session: by Jerry Sacks dealing with Jack's personal life, by Larry Brown dealing with Jack's contributions in statistics and probability, and by Henry Wynn dealing with Jack's contributions to the design of experiments. These three papers, together with Jack's bibliography, were published in the *Annals of Statistics* and are included as an introduction to these volumes: **International Journal of Information and Management Sciences**, 2004; Mathematical Methods of Statistics, 1999; **Statistical Inference**, George Casella, Roger L. Berger, 1990. Discusses both theoretical statistics and the practical applications of the theoretical developments. Includes a large number of exercises covering both theory and applications. *Journal of Econometrics*, Volume 122, Issue 1, 2004. *Reprints* University of Oxford. Observatory, 1961. Reprint University of Oxford. Observatory, 1961. **Rarefied Gas Dynamics**, R. Campargue, 1979.

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