

Synthesis of Disc Cam with Roller Follower

Prof. Octavian Bologa
Faculty of Mechanical Engineering, Galati, Romania

ABSTRACT

This paper deals with the Mathcad based method for automatic synthesis of the disc cam of a cam mechanism. This method can be useful for students of technical universities, who study the mechanism and machine theory.

Keywords: THEORETICAL MECHANICS, DYNAMICS OF SYSTEM OF A RIGID BODIES

References

1. **Hamilton H. Mabie, Charles F. Reinholtz.** Mechanisms and Dynamics of Machinery. John Wiley & Sons, New York, Chichester, Brisbane, Toronto, Singapore, 1987 p. 644.
2. **Robert L. Norton.** Design of Machinery. McGraw-Hill, Inc., New York, St. Louis, San Francisco, Auckland, Bogota, Caracas, Hamburg, Lisbon, London, Madrid, Mexico, Milan, Montreal, New Delhi, Paris, San Juan, Sao Paulo, Singapore, Sydney, Tokyo, Toronto, 1992, p.714.
3. **Frolov, K., V, Popov, S., A., et al.** Theory of Mechanisms and Machines (in Russian). Moskva, 1987, p. 496.
4. **Robert L. Norton** Cam Design and Manufacturing Handbook, Industrial Press, Copyright 2002, 624 pp. ISBN 0-8311-3122-5
5. **Erdman, A. and Sandor, G.,** *Mechanism Design: Analysis and Synthesis*, Prentice-Hall, New Jersey, 1984.
6. **Sandor, G. and Erdman, A.,** *Advanced Mechanism Design: Analysis and Synthesis*, Prentice-Hall, New Jersey, 1984.
7. **Berard, S. J., Waters, E. O. and Phelps, C. W.,** *Principles of Machine Design*, Ronald Press, New York, 1955.