



Perfection Spring & Stamping Corp.

1449 East Algonquin Rd., Mount Prospect, Illinois 60056

www.pss-corp.com

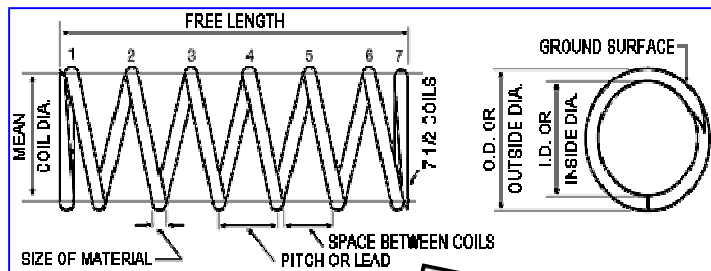
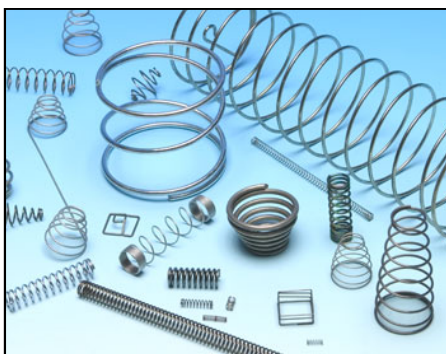
- Free Technical Seminar Series -

“The Basics of Spring Design”

Wednesday, June 3, 2009, 10:30—1:30 pm (cst). Lunch will be provided.

Space is limited. Please confirm by 05-20-09: Contact: Joshua@pss-corp.com. 847-287-9755

This design seminar will cover the basics of spring design including compression, extension & torsion springs. Emphasis will be placed upon methods to “Reduce Cost” during the initial design phase for your applications. Definitions and understanding of spring terminology and concepts will be covered including stress, rates, index, load, fatigue, & coatings. Various material types to match applications will also be covered. If knowledge of spring design is limited, you or your colleagues will benefit from this technical class. The agenda will include an operational tour of our Coiling Department, followed by the seminar and working lunch.



$$d = \sqrt[3]{\frac{8PD}{\pi S}}$$

$$n = \frac{Gd^4}{8RD^3}$$

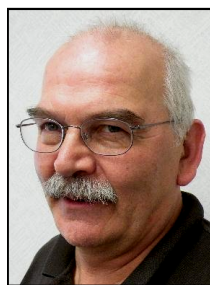
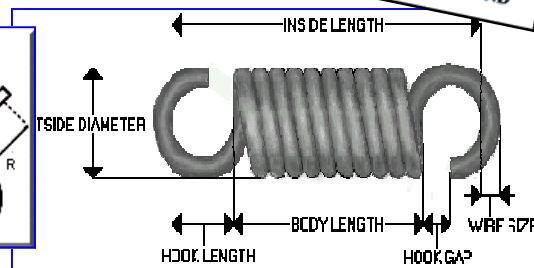
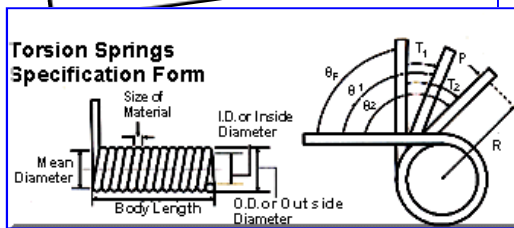
$$S = \frac{8PD}{\pi d^3} \text{ psi}$$

$$d = \sqrt[3]{\frac{32M}{\pi S_2}}$$

$$S = \frac{32M}{\pi d^3} \text{ psi}$$

$$n = \frac{Ed^4T}{10.8DM}$$

$$M = \frac{Ed^4T}{10.8ND}$$



Speaker: Marek Olszewski is a proficient spring designer and holds a masters degree in mechanical engineering. He has been manufacturing and designing springs for over 20 years. This, in combination with his years as a setup technician give him both the analytical and practical experience to be an effective presenter & teacher. His knowledge will be shared including explanations between “Calculated outputs” and “Actual outputs” seen in real world applications.