

Realities of Being a Young Engineer

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imagination at work

Takeaways from College



imagination at work

Takeaways from College

- Take the FE!
 - Don't wait
 - Becoming more and more of a requirement
- Network with Professors and peers
 - Constantly make connections and keep them
- Save Relevant Textbooks
- Learn Computer Programs in depth
 - MATLAB, MathCAD, Excel, ANSYS, Solidworks

Takeaways from College

- Don't put graduate school off
- Get as much experience as you can
 - Internships, co-ops, part time jobs with professors
- Get exposure to other things besides engineering coursework
 - Clubs, societies, sports



Takeaways from College

- Fine tune your technical writing and presentation skills



Approximations error using Fourier series can be calculated by using the formula:

$$\delta = \frac{|P - P_M|}{P} \quad (12)$$

Aby wyeliminowac efekt overshoot mozemy zastosowac *windowing*. Nadajemy kazdemu elementowi wage zgodnie ze wzorem:

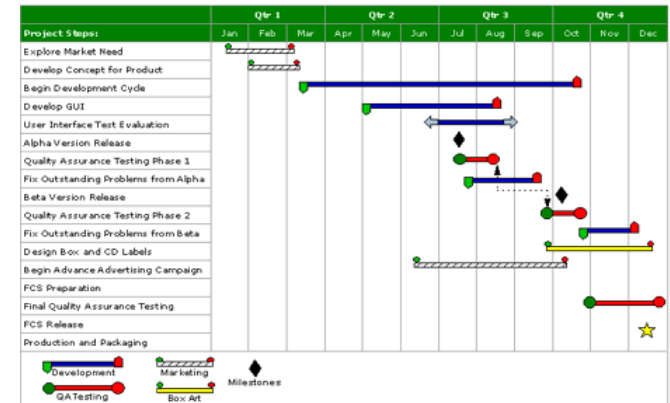
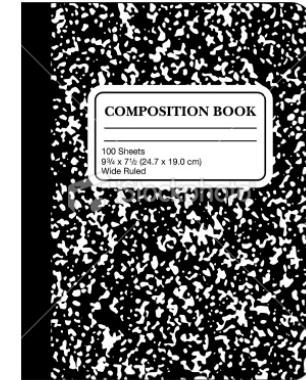
To eliminate the effect of overshoot we can use windowing. We give weight to every element of the according to equation (13):

$$f(t) \approx \alpha_0 a_0 + \sum_{k=1}^N \alpha_k (a_k \cos k\omega_0 t + b_k \sin k\omega_0 t) \quad (13)$$

Do's and Don'ts in the Industry

Do's and Don'ts in the Industry

- Document all work
 - Keep a notebook of all activity
- Find a mentor
 - Don't be afraid to ask questions
- Time management is key
 - Gantt Chart AHHH!
- Less is More
 - Keep emails simple and to the point



Do's and Don'ts in the Industry

- Life long learning is in fact important!
 - Master's, company training programs, on-line web courses, technical conferences, workshops, and technical journals
 - A lot of time you go into an industry you are unfamiliar with
- Realize that today's marketplace is global
 - Language barriers and misunderstanding occur
A LOT

Do's and Don'ts in the Industry

- Don't burn bridges
 - Conflict may arise, but its best to resolve it rather than ignore it
- Be confident!
- Have fun, but not TOO much fun
 - College life and working full-time life are extremely different



Do's and Don'ts in the Industry

- Do not assume that once you have an offer/job position, that you are set.
- Team work and communication is KEY in the industry.



