

## Most Common Mistakes - General Mistakes

Bernhard Geiger

This document covers a set of problems that occurred in the previous year. Since it is my intention to write such a document for each of the three home assignments only the most general mistakes will be discussed here. With “general” I mean the Dos and Don’ts concerning the written part of the home assignment, organizational stuff and similar. This document was wholly inspired by [1], so I want to give credit to the author.

**Group work** Group work is prohibited. However, group work does not include scientific discussions with you colleagues! Instead, discussing the matter with peers deepens the understanding of all parties, so discussions are not only allowed but recommended. Simply copying the protocol of one of your colleagues on the other hand is neither allowed nor helpful for yourself in terms of understanding the matter. If you are facing problems with the assignments, contact me via mail or post your questions on the discussion board.

If I still detect a set of protocols with identical contents, *all* authors will be fined with getting 0 points for this assignment.

**Einsichtnahme** (That’s where you can look at the corrected homework and discuss the grading with me.) There will be an Einsichtnahme for each of the three home assignments, usually two to three weeks after submission deadline. Room and time will be announced for each Einsichtnahme separately. If someone of you is not available at the specified time but still wants to discuss the grading, there will certainly be an opportunity to do so. Again, please contact me via mail.

Please also note that it is not desired to discuss the grading of *all three* protocols at the Einsichtnahme for the last home assignment. If you insist doing so, please tell me beforehand so that I can at least collect your earlier protocols and bring them with me.

**Discussion board** There will be a discussion board in TUGonline, for which you need to subscribe separately. Please neither use the feed-back forums or an anonymous board, since these will not be checked for questions regularly. Feel free to ask whatever you want to know, but please do not post any solutions. If you want a solution to be verified, please send it to me via mail.

**Source codes and scripts** In some tasks of the assignments you will be asked to perform numerical calculation or draw graphs with a software packet of your choice (Matlab, MathCAD, Derive, Maple, et cetera). Please note that it is *not necessary* to append scripts or source codes to your protocol, unless the task description requires that.

**Sketches and plots** A sketch usually refers to a free-hand drawing, while a plot is a printed version of a computer graph. In any case, take care to label the axis and include titles and legends, if necessary. Also, even if it is only a sketch, you should tick and label zeros and maximum values of your function (i.e. amplitude, pulse width, period, etc.).

**Fulfill all tasks properly!** Every single subtask has its own number of points associated to, so skipping this subtask - however trivial it might seem to you - will cost you this special amount. E.g. if you are told in subtask (b) to compute the output  $y(t)$  of a system  $H(j\omega)$  for a given input signal  $x(t)$  it is not sufficient to write

$$Y(j\omega) = H(j\omega)X(j\omega). \quad (1)$$

Let us further assume that you are told to evaluate the resulting signal spectrum for a set of frequencies, say, in subtask (c). If you do so, you will definitely get the whole points for this subtask, *but not* for subtask (b).

**Subsequent errors** Subsequent errors will not be fined. If you need a result from subtask (a) for the remaining tasks but you made a mistake in calculating it, you will lose the points for subtask (a) only. Of course, this only holds if your subsequent calculations do not contain any additional errors.

Good luck with the home assignments!

## References

- [1] Daniel Arnitz. General comments and most common mistakes. SPSC Website. Document provided for Adaptive Systems practice sessions.