

List of the documents present in the website for the course: PSM – Progettazione di Sistemi Microelettronici - Modulo Microelettronica Analogica (Microelectronic System Design – Analog Microelectronics module)

1 Course notes (mandatory material for the exam)

N	File name	Directory	pp.	Content
1	dispensa_2013.pdf	dispensa	147	Includes most of the course material (Italian, computer writte)
2	device_models.pdf	dispensa	4	Analytical device models used in the course. Complements and updates the model section of “dispensa_2013”. (English, computer written)
3	Source_follower_w_body_eff.pdf	dispensa	2	Describes the impact of the mosfet body effect to the gain of a source follwer stage. (Italian, computer written)
4	stadi_di_uscita_e_opamp_versione_2013.pdf	dispensa	20	Summarizes the brief lessons on output stages and opamps. It substitutes paragraphs 6.3 and 6.4 of “dispensa_2013.pdf” (Italian, hand written)

2. Material for projects (all in English and computer written). Projects are optional. See the project rules in document 4 of the following list. For students that do not intend to carry out a project, only browsing through the DRM.pdf is suggested, in order to gain knowledge of the structure of DRM manuals and layout rules.

1	DRM.pdf	DK	15	The Design Rule Manual of CMOS process PSM025 created for educational purposes using parameters averaged over existing commercial processes of the same technology node
2	psm_work.zip	DK	-	The design kit (educational) to be used for projects
3	install_instructions.pdf	DK	2	Install instruction of the design kit and free programs to be used for the projects
4	program_instructions.pdf	DK	14	Detailed instructions for using the programs and design kit. Includes also instructions about the report that the student have to write at the end of the project
5	guidelines_for_projects.pdf	DK	6	Includes suggestions about the execution of projects (mosfet sizing etc).
6	BIPOL.LIB	DK	-	The model file to be used in the experimental lesson about bipolar differential amplifiers.

3. Optional material. These documents are included for students that want to deepen their knowledge on selected topics. They are NOT required for the exam.

1	latch_up.pdf	dispensa	6	Describes the latch-up phenomenon and sketches a few remedies.
2	Approfondimenti.zip	approfondimenti	-	Compressed files that includes a few documents (and also a list file) with various subjects