List of useful links to study Ansys

This list does not contain any links to pirate resources. Surf the web by your own, and you will definitely find most of following items.

Remark:

Ansys, as most of other FEA packages, has two major interfaces: an old one (Classical GUI, now named "Mechanical APDL") and a new one (Workbench, also named "Ansys Mechanical"). Mechanical APDL is not so convenient to use, but is very useful when you want to solve some specific problem which is not ordinary. Mechanical APDL could be driven via text commands, thus it's liked by experienced users. Workbench is more user friendly, and allows the easy usage of the geometry from modern CAD packages, maintaining the associativity through the whole FEA process. However, Workbench has few limitations; it is not as flexible as APDL. In APDL you can program everything you can imagine, for instance you can implement your own finite elements. But for ordinary problems, Workbench is quicker and simpler to use. Workbench is a wise choice to start from, while studying Mechanical APDL could be a next step to considerably improve your level of knowledge. For example, the simple linear buckling problem could be solved within Workbench without APDL, but if you want to solve a comprehensive nonlinear buckling problem, the wisest way is to use Workbench with command codes from APDL. The one another example when APDL is used with Workbench is when you need to make an analysis with submodeling or substructuring techniques. The ability to fluently use APDL commands in Workbench is indeed a distinguishing feature of professionals highly experienced in Ansys.

All resources listed below could be divided on those which are focused on Mechanical APDL and on Ansys Workbench.

Links useful mostly for beginners

#	Name	Link	Description of the	Comments
#	Name	LITIK	•	Comments
			link	
1	Course Documents for	https://web.cimne.upc.e	Set of	Beautiful resource to start with. Step-by-step presentations covering
	Advanced Computer	du/users/xmartinez/MAE	educational	the very basic topics related to FEA and Ansys Workbench.
	Aided Design	656/index.html	presentations	
2	ANSYS Workbench	http://www.amazon.co	Very good book.	Tutorials for Release 10 could be found for free in the net. Very basic
	Tutorial Release 14 by	m/ANSYS-Workbench-	Quite expensive,	tutorials, best to start with . The only shortcoming is that the project
	Kent Lawrence	Tutorial-Release-	though.	page of Workbench 10 is different from modern Workbench, so it
		14/dp/1585037540	_	could be difficult to start exercises. I recommend to watch few
				tutorials on Youtube to understand the modern view of project page,
				and then you will have no problems with Lawrence's tutorials.
3	Finite Element	http://myweb.ncku.edu.t	Lecture slides,	This resource is extremely useful because of finished projects
	Simulations with	w/~hhlee/Myweb at NC	animations of	uploaded to the web site.
	ANSYS Workbench 14	KU/ANSYS14.html	results, finished	The book itself is available for fee only.
	by Huei-Huang Lee		projects.	The old version of the book (with Wokrbench 12) could be found for
				free, though
4	Youtube	http://www.youtube.co	Many people	Search for "ansys demo", "ansys tutorial" or simply "ansys". Try to find
		m/	share demo	channels where people upload ansys tutorials, such as feaprofessor's
		_	videos	channel.
5	Madenci. The Finite	http://www.springer.co	Springer allows to	Focused on Mechanical APDL. Fundamentals of FEA are covered.
	Element Method and	m/engineering/mechanic	read this book	Advanced topics are presented as well.
	Applications in	al+engineering/book/97	online	·
	Engineering Using	8-0-387-28289-3		
	ANSYS. 2006			
6	Official website	http://ansys.com/Resour	Different	Lots of advertising information, but you can find educational info as
	resource library	<u>ce+Library</u>	resources	well

Links useful mostly for experienced users

Elliko abelal mostly for experienced abelo							
7	Focus Journal	http://www.padtinc.com	Lots of useful	Useful tips and tricks for Ansys users. Very valuable to improve and			
		/blog/	articles	widen the knowledge of Ansys package, both Workbench and APDL			
8	Ansys.net	http://ansys.net/	Lots of reference	Oriented on APDL users. It is a unique source of undocumented			
			information	featerus			
9	XANSYS	http://www.xansys.org/	Forum	Beautiful forum, guess this is an only place where top-level users			
				share their experience.			