Computer aided design of machining technology
Questions for Final Exam
2019/2020

1. Classify and present the bevel gear machining methods!
2. Classify and present the machining process of shaft joints!
3. Classify the cutting methods, present the motions and the applications!
4. Classify the gear manufacturing methods! Present the spur gear manufacturing methods!
5. Compare the 3D and 5D milling technology!
6. Present the 2.5D CAM milling strategies!
7. Present the 3D CAM milling strategies!
8. Present the aim and technique of dimension chain analysis related to the assembly process planning!
9. Present the application of PDM systems in the engineering work!
10. Present the CAM strategies of axial symmetrical parts!
11. Present the methods and principles of manufacturing process planning!
12. Present the possibilities and the problems of data interchange in CAx systems!
13. Present the process of assembly planning!
14. Present the process of blank material selection; classify the blanks and the methods of size identification!
15. Present the process of manufacturing process planning (5 stages model) and its documents!
16. Present the rapid prototyping / additive manufacturing technology!
17. Present the tasks of CAM systems and the CAM workflow!
18. Present the theory of datum of spur and bevel gears! Present the pre-gearing machining methods!
19. Present the theory of machining datum and the application of fixtures!
20. Present the thread manufacturing methods!

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