COMPUTER AIDED DESIGN

OF A POWER TRANSMITTING SHAFT

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SUMMARY

This project deals, with the development of a program, fully compatible with AutoCAD, to aid designing of a power transmitting shaft of various capacities.

The most commonly used, theories of shaft design are presented. The project also expands, at the field of customization of AutoCAD. Some various techniques aiming at increasing the efficiency of an AutoCAD system are presented.

This project also introduces the reader into AutoLISP, an interface programming language enclosed in the AutoCAD package.

Flowcharts are developed, to show the function of the program, while a complete user's manual is enclosed.

Finally the software is tested and as a conclusion some recommendations are stated.

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