

令和5年度 九州産業大学大学院入学試験問題・解答用紙（春期）

工学研究科 産業技術デザイン専攻 機械システム分野 博士前期課程

入試区分：Ⅱ類

〔問題〕 下記の英文を日本語に翻訳しなさい。

(1) The purpose of CAD is to optimize and streamline the designer's workflow, increase productivity, improve the quality and level of detail in the design, improve documentation communications and often contribute toward a manufacturing design database. CAD software outputs come in the form of electronic files.

* streamline 効率をよくする

(2) Hooke's law is an empirical law which states that the force (F) needed to extend or compress a spring by some distance (x) scales linearly with respect to that distance, that is, $F = kx$, where k is a constant factor characteristic of the spring. Hooke's equation holds in many other materials where an elastic body is deformed to some extent. Hooke's law is an accurate approximation for most solid bodies, as long as the forces and deformations are small.

* be characteristic of 特有の

(3) What is CAM? Computer Aided Manufacturing (CAM) is the use of software and computer-controlled machinery to automate a manufacturing process. Without CAM, there is no CAD. Here, CAD focuses on the design of a product or part. How it looks, how it functions. On the otherhand, CAM focuses on how to make it.

* function 機能する

試験
科目

英 語

受 験 番 号

評
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