A 3-D Structure Design System, A Method For Designing 3-D Structure And A Recording Medium Readable By A Computer Having A Program Allowing The Computer To Execute The Method Recorded Therein

Abstract

The present invention is intended to newly provide a 3-D structure design system which can prepare drawings and perform a quantity calculation at the same time, and can largely eliminate a trouble caused at the time of designing a concrete structure by handling the design of concrete-made structures with a cubic 3-D data from the very beginning.

The present invention provides a 3-D structure design system and a method therefor, the system comprising:

data input means for inputting structure data with respect to a whole body of a concrete-made 3-D structure;

3-D structural data search means for searching data on a portion between members and data on a connection between members on the basis of the input data on the concrete-made structure, checking an interference portion between members, aligning members through the result of rivaling between members, automatically adjusting the overlapping of members, and searching the input data on members as data conforming to the concrete structure;

body quantities search means for calculating each of the quantities of concrete, forms and timbering of a concrete-made structure; and

result display means for displaying/outputting a search result of each means such as a total quantity list or the like.

Fig. 1