Modeling of Optical Cable Problems

As a starting point, this chapter discusses fiber-optic communication systems and their fundamental technologies. It also discusses current developments as well as technological trends for ...

In this study, the mathematical model through incommensurate fractional-order differential equations in Caputo meaning are presented for time ...

Overall, the modeling of deformable cable-like objects is an important and complex problem, which has a wide range of applications. Therefore, in this paper, we survey and analyze the ...

An important concept is that of the strain free window, that is, the range of extension and contraction of the cable for which the optical fibres remain strain free.

The scientific contribution of this paper entails novel ex-plainable AI (XAI) models harvesting data from optical fiber link events to first derive local explanations, and then apply a hierarchical approach to ...

Based on the above research, this paper introduces the creation method of cable package in layers, segments and partitions. The optical fiber curves of different layers, different turns and ...

This automatically generated document consists of several sections, which specify the problem setup and finite element analysis simulation results. Navigation links in the top of each page lead to ...

In this study, the mathematical model through incommensurate fractional-order differential equations in Caputo meaning are presented for time-dependent variables given as the ...

We will present reproduction pro-gram which re-enact picked tweak systems through optical transmission way. Each optical fibre speaks to a transmission framework, which is a recurrence ...

TL;DR: In this article, the authors proposed a unified parametric modeling method of different specifications of the optical fiber cable package on the premise of fully understanding the structure ...

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