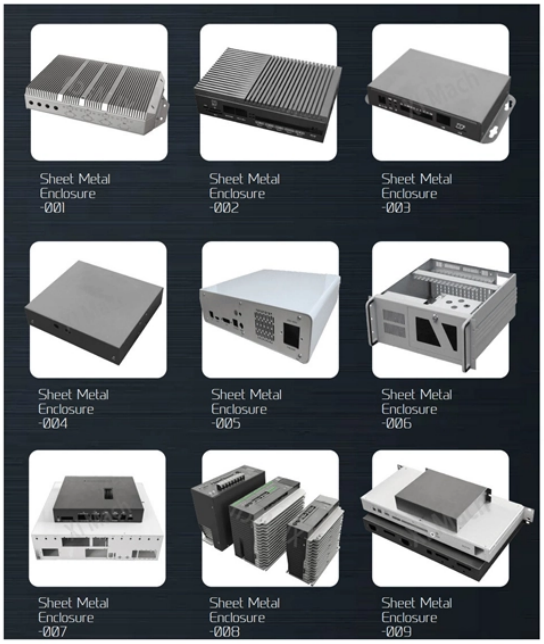
HHC Networks & Smart City Solutions

MATLAB Fiber Optic Sensing



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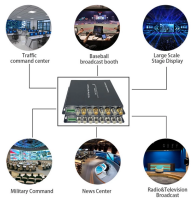

In this article, we present a numerical simulation tool called BPM-Matlab in which the Douglas-Gunn Alternating Direction Implicit (DG-ADI) method is used to efficiently model the electric field ...

To study FBG spectral characteristics at apodization various functions there has been written the program in MATLAB medium. Program interface is ...

- Calculate the effective refractive index of each mode for the given diameter and wavelength or versus variable diameter or wavelength (modal dispersion). - Calculate the electric ...

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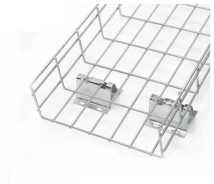

Here, we present PASTa (Photometry Analysis and Signal Processing Toolbox), an open-source MATLAB toolbox and protocol for the signal processing and ...

Learn ExploreDAS, an open-source MATLAB based Tool for modeling and imaging Fiber Optic Distributed Acoustic Sensing seismic data.

FiberLabX is a MATLAB-based simulation platform for advanced optical fiber analysis using both Finite Element Method (FEM) and Finite Difference Method (FDM). It provides a unified ...

With the knowledge of geometry, taper fiber optic sensor is modeled using COMSOL Multi-physics to scrutinize the effects of optical and electrical field propagation.

Here, we present PASTa (Photometry Analysis and Signal Processing Toolbox), an open-source MATLAB toolbox and protocol for the signal processing and analysis of fiber photometry data, to ...

Mainly, for gas identification and tracking, we focus on modeling and simulating optical fiber sensors. Numerous steps must be followed while simulating an optical fiber.

With the knowledge of geometry, taper fiber optic sensor is modeled using COMSOL Multi-physics to scrutinize the effects of optical and electrical field ...

	After proper development and design, the designing of optic couplers for an Optical link design can be done with ease. Furthermore, this software can be used for modal analysis of fibres which includes ...
	This study presents a model for predicting the SNR of a fiber optic F-P acoustic sensing system using the Fabry–Perot (F-P) cavity length modulation principle, considering noise and line ...

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