MathWorks

Modeling Dynamic Systems with MATLAB and Simulink

Explore more capabilities for modeling dynamic systems

Model Structures

Use MATLAB® and Simulink® to support linear and nonlinear model structures, including integration of third-party models.

Linear Models

TRANSFER FUNCTION

STATE SPACE

LINEAR PARAMETER VARYING

TIME SERIES (ARX, ARMA)

FREQUENCY RESPONSE DATA

ZPK

Nonlinear Models

Nonlinear portion could be represented with AI

AI-BASED MODELS

ODEs

HAMMERSTEIN-WIENER

GAUSSIAN PROCESS

SUPPORT VECTOR MACHINE

NEURAL STATE SPACE

NLARX

REGRESSION TREE

NEURAL NETWORK

Integrate Third-Party Models

FUNCTIONAL MOCKUP UNIT

PYTHON IMPORTERS

S-FUNCTIONS

Model Parameters

Determine model parameters through first principles, grey box, and data-driven methods.

MODELING BASED ON PHYSICAL LAWS

MODELING BASED ON SYSTEM DATA

WHITE BOX

GREY BOX

BLACK BOX

FIRST PRINCIPLES

PHYSICAL MODELING WITH SIMSCAPE

GREY BOX ODEs

PARAMETER ESTIMATION IN SIMULINK MODELS

SYSTEM IDENTIFICATION (TRADITIONAL AND AI-BASED)

ONLINE ESTIMATION

MODEL ANALYSIS

DATA PREPARATION

OFFLINE ESTIMATION

Model Manipulation

Modify models through transformation, linearization, and order reduction methods.

Model Transformation

MODEL TYPE

CONTINUOUS-DISCRETE

STATE-COORDINATE

MODAL DECOMPOSITION

Linearization

NUMERICAL PERTURBATION

BLOCK-BY-BLOCK

FREQUENCY RESPONSE ESTIMATION

Reduced Order Modeling

MODEL-BASED

DATA-DRIVEN

Use model data to learn a lower order model

BALANCED TRUNCATION

POLE-ZERO SIMPLIFICATION

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3/2024

Modeling And Simulation Of Systems Using Matlab And Simulink

Mike Jess

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