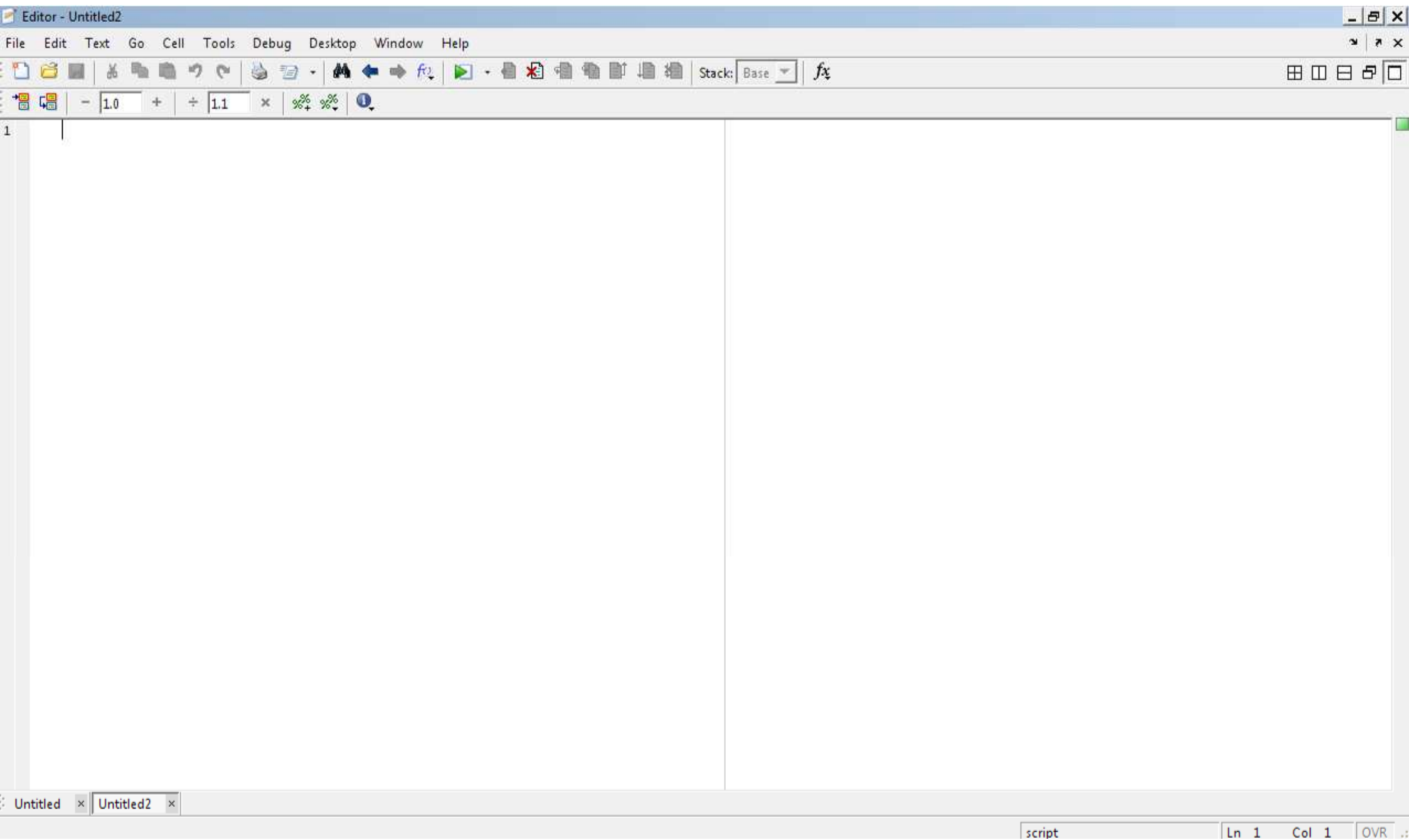


fx >> |



```

4 %
5 % [sigma,outn,outd]=arma_last(xinf,np,nq)
6 %
7 % The function requires:
8 %
9 % xinf(nsam) Input signal (real valued) of nsam samples
10 % nq Order of the denominator (# of poles)
11 % np Order of the numerator (# of zeros)
12 %
13 % The function provides:
14 %
15 % outd(nq) The numerator coefficients outn(1)=1
16 % outn(np) The denominator coefficients outd(1)=1
17 % sigma The square-root of input noise power
18 %
19 % The function requires spa_corc.m to compute the autocorrelation matrix
20 % estimate
21 %
22 % Miguel Angel LAGUNAS and Petre STOICA June 2007
23 %
24 %-----
25 function [sigma,outn,outd]=arma_last(xinf,np,nq);
26 nsam=length(xinf);ra1=spa_corc(xinf,nq);nle=(nsam/2);
27 ra2=spa_corc(xinf,nle);[u d]=eig(ra2);
28 d1=diag(log(diag(d)));cal=u*d1*u';clear u d1 d ra2 nsam;
29 for i=1:np
30 cuso(i)=0;
31 for j=1:nle-i;
32 cuso(i)=cuso(i)+cal(j,i+j);
33 end;cuso(i)=cuso(i)/(nle);
34 end;
35 cep=(1:1:np).*cuso(1:np);clear cal nle cuso;
36 i=2;h(1)=1;
37 while i<nn+0.5:

```

Simulink Library Browser

File Edit View Help

Enter search term



Libraries

Simulink

Commonly Used Blocks

Continuous

Discontinuities

Discrete

Logic and Bit Operations

Lookup Tables

Math Operations

Model Verification

Model-Wide Utilities

Ports & Subsystems

Signal Attributes

Signal Routing

Sinks

Sources

User-Defined Functions

Additional Math & Discrete

Aerospace Blockset

Communications Blockset

Control System Toolbox

Data Acquisition Toolbox

EDA Simulator Link DS

EDA Simulator Link IN

EDA Simulator Link MQ

Embedded IDE Link CC

Embedded IDE Link MU

Embedded IDE Link VS

Fuzzy Logic Toolbox

Gauges Blockset

Image Acquisition Toolbox

Library: Simulink

Search Results: (none)

 Commonly Used Blocks

 Continuous

 Discontinuities

 Discrete

 Logic and Bit Operations

 Lookup Tables

 Math Operations

 Model Verification

 Model-Wide Utilities

 Ports & Subsystems

 Signal Attributes

 Signal Routing

 Sinks

 Sources

 User-Defined Functions

 Additional Math & Discrete

Block Description



Simulink/Commonly Used Blocks

Showing: Simulink

Simulink Library Browser

File Edit View Help

Enter search term

Libraries

Image Acquisition Toolbox

Instrument Control Toolbox

Model Predictive Control ...

Neural Network Toolbox

OPC Toolbox

RF Blockset

Real-Time Windows Tar...

Real-Time Workshop

Real-Time Workshop Em...

Report Generator

Robust Control Toolbox

Signal Processing Block...

SimEvents

SimPowerSystems

Simscape

Simulink 3D Animation

Simulink Control Design

Simulink Design Optimiza...

Simulink Design Verifier

Simulink Extras

Simulink Verification and...

Stateflow

System Identification To...

Target Support Package ...

Target Support Package ...

Target Support Package ...

Target Support Package ...

Vehicle Network Toolbox

Video and Image Proces...

xPC Target

Library: Simulink

Search Results: (none)

Commonly Used Blocks

Math Operations

Sinks

Continuous

Model Verification

Sources

Discontinuities

Model-Wide Utilities

User-Defined Functions

Discrete

Ports & Subsystems

Additional Math & Discrete

Logic and Bit Operations

Signal Attributes

Lookup Tables

Signal Routing

Block Description

Simulink/Commonly Used Blocks

Showing: Simulink

Simulink Library Browser

File Edit View Help

Enter search term

Libraries

- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox
- RF Blockset
- Real-Time Windows Tar...
- Real-Time Workshop
- Real-Time Workshop Em...
- Report Generator
- Robust Control Toolbox
- Signal Processing Block...
- SimEvents
- SimPowerSystems
 - Application Libraries
 - Electrical Sources
 - Elements
- Extra Library
 - Machines
 - Measurements
 - Power Electronics
- Simscape
- Simulink 3D Animation
- Simulink Control Design
- Simulink Design Optimiza...
- Simulink Design Verifier
- Simulink Extras
- Simulink Verification and...
- Stateflow
- System Identification To...

Library: Simulink Search Results: (none)

 Commonly Used Blocks	 Continuous	 Discontinuities	 Discrete	 Logic and Bit Operations	 Lookup Tables
 Math Operations	 Model Verification	 Model-Wide Utilities	 Ports & Subsystems	 Signal Attributes	 Signal Routing
 Sinks	 Sources	 User-Defined Functions	 Additional Math & Discrete		

Block Description



Simulink/Commonly Used Blocks

Showing: Simulink



Simulink Library Browser

File Edit View Help

Enter search term

Libraries

- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox
- RF Blockset
- Real-Time Windows Tar...
- Real-Time Workshop
- Real-Time Workshop Em...
- Report Generator
- Robust Control Toolbox
- Signal Processing Block...
- SimEvents
- SimPowerSystems
 - Application Libraries
 - Electrical Sources**
 - Elements
- Extra Library
- Machines
- Measurements
- Power Electronics
- Simscape
- Simulink 3D Animation
- Simulink Control Design
- Simulink Design Optimiza...
- Simulink Design Verifier
- Simulink Extras
- Simulink Verification and...
- Stateflow
- System Identification To...

Library: SimPowerSystems/Electrical Sources | Search Results: (none)

AC Current Source

AC Voltage Source

Battery

Controlled Current Source

Controlled Voltage Source

DC Voltage Source

Three-Phase Programmable...

Three-Phase Source

Block Description



SimPowerSystems/Electrical Sources/AC Current Source: Ideal sinusoidal AC current source. The positive current direction is indicated by the arrow.

Showing: SimPowerSystems/Electrical Sources

Simulink Library Browser

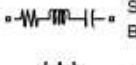
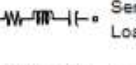
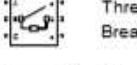
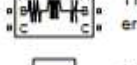
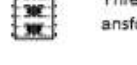
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Libraries

- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox
- RF Blockset
- Real-Time Windows Tar...
- Real-Time Workshop
- Real-Time Workshop Em...
- Report Generator
- Robust Control Toolbox
- Signal Processing Block...
- SimEvents
- SimPowerSystems
 - Application Libraries
 - Electrical Sources
 - Elements**
 - Extra Library
 - Machines
 - Measurements
 - Power Electronics
- Simscape
- Simulink 3D Animation
- Simulink Control Design
- Simulink Design Optimiza...
- Simulink Design Verifier
- Simulink Extras
- Simulink Verification and...
- Stateflow
- System Identification To...

Library: SimPowerSystems/Elements | Search Results: (none)

 Breaker	 Connection Port	 Distributed Parameters Line	 Ground	 Grounding Transformer	 Linear Transformer
 Multi-Winding Transformer	 Mutual Inductance	 Neutral	 Parallel RLC Branch	 Parallel RLC Load	 Pi Section Line
 Saturable Transformer	 Series RLC Branch	 Series RLC Load	 Surge Arrester	 Three-Phase Breaker	 Three-Phase Dynamic Load
 Three-Phase Fault	 Three-Phase Harmonic Filter	 Three-Phase Mutual Inductance	 Three-Phase Pi Section Line	 Three-Phase Parallel RLC Branch	 Three-Phase Parallel RLC Load
 Three-Phase Series RLC Branch	 Three-Phase Series RLC Load	 Three-Phase Transformer (Three-Winding)	 Three-Phase Transformer (Two-Winding)	 Three-Phase Transformer 12-Pulse	 Three-Phase Transformer Inductor
 Three-Phase Transformer Inductor	 Zigzag Phase-Shifting Transformer				

Block Description

 **SimPowerSystems/Elements/Breaker:** Implements a circuit breaker with internal resistance R_{on} . R_{on} is required by the model and cannot be set to zero.

When the external control mode is selected, a Simulink logical signal is used to control the breaker operation. When the signal becomes greater than zero the

Showing: SimPowerSystems/Elements

Simulink Library Browser

File Edit View Help

Enter search term

Libraries

Image Acquisition Toolbox

Instrument Control Toolbox

Model Predictive Control ...

Neural Network Toolbox

OPC Toolbox

RF Blockset

Real-Time Windows Tar...

Real-Time Workshop

Real-Time Workshop Em...

Report Generator

Robust Control Toolbox

Signal Processing Block...

SimEvents

SimPowerSystems

Application Libraries

Electrical Sources

Elements

Extra Library

Machines

Measurements

Power Electronics

Simscape

Simulink 3D Animation

Simulink Control Design

Simulink Design Optimiza...

Simulink Design Verifier

Simulink Extras

Simulink Verification and...

Stateflow

System Identification To...

Library: SimPowerSystems/Machines

Search Results: (none)

Asynchronous Machine SI U...

Asynchronous Machine pu U...

DC Machine

Discrete DC Machine

Excitation System

Generic Power System Stabili...

Hydraulic Turbine and Gover...

Machines Measurement Demux

Multi-Band Power System St...

Permanent Magnet Synchron...

Simplified Synchronous Mac...

Simplified Synchronous Mac...

Single Phase Asynchronous...

Steam Turbine and Governor

Stepper Motor

Switched Reluctance Motor

Synchronous Machine SI Fun...

Synchronous Machine pu Fun...

Block Description

SimPowerSystems/Machines/Asynchronous Machine SI Units: Implements a three-phase asynchronous machine (wound rotor or squirrel cage) modeled in a selectable dq reference frame (rotor, stator, or synchronous). Stator and rotor windings are connected in wye to an internal neutral point.

Showing: SimPowerSystems/Machines

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2020/02/05

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File Edit View Help

Enter search term

Libraries

- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox
- RF Blockset
- Real-Time Windows Tar...
- Real-Time Workshop
- Real-Time Workshop Em...
- Report Generator
- Robust Control Toolbox
- Signal Processing Block...
- SimEvents
- SimPowerSystems
 - Application Libraries
 - Electrical Sources
 - Elements
 - Extra Library
 - Machines
 - Measurements
 - Power Electronics
- Simscape
- Simulink 3D Animation
- Simulink Control Design
- Simulink Design Optimiza...
- Simulink Design Verifier
- Simulink Extras
- Simulink Verification and...
- Stateflow
- System Identification To...

Library: SimPowerSystems/Measurements Search Results: (none)

Current Measurement Impedance Measurement Multimeter Three-Phase V-I Measurement Voltage Measurement

Block Description

 SimPowerSystems/Measurements/Current Measurement: Ideal current measurement.

Showing: SimPowerSystems/Measurements

Simulink Library Browser

File Edit View Help

Enter search term

Libraries

- Image Acquisition Toolbox
- Instrument Control Toolbox
- Model Predictive Control ...
- Neural Network Toolbox
- OPC Toolbox
- RF Blockset
- Real-Time Windows Tar...
- Real-Time Workshop
- Real-Time Workshop Em...
- Report Generator
- Robust Control Toolbox
- Signal Processing Block...
- SimEvents
- SimPowerSystems
 - Application Libraries
 - Electrical Sources
 - Elements
 - Extra Library
 - Machines
 - Measurements
 - Power Electronics**
- Simscape
- Simulink 3D Animation
- Simulink Control Design
- Simulink Design Optimiza...
- Simulink Design Verifier
- Simulink Extras
- Simulink Verification and...
- Stateflow
- System Identification To...

Library: SimPowerSystems/Power Electronics Search Results: (none)

Detailed Thyristor

Diode

Gto

IGBT

IGBT/Diode

Ideal Switch

Mosfet

Three-Level Bridge

Thyristor

Universal Bridge

Block Description

 **SimPowerSystems/Power Electronics/Detailed Thyristor:** Detailed model of Thyristor in parallel with a series RC snubber circuit.
In on-state the Thyristor model has an internal resistance (R_{on}) and inductance (L_{on}).
In off-state the Detailed Thyristor as an impedance.
Best accuracy is achieved when T_q is larger than the simulation step size.

Showing: SimPowerSystems/Power Electronics