

**Eigensystem Realization Algorithm Modal
Identification Experiences With Mini-
Mast (NASA Technical Memorandum)**

By Richard S Pappa



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ERA, eigensystem realization algorithm. Evaluating the performance of distributed approaches for modal identification. Identification of Flight Vehicle Models <http://academic.research.microsoft.com/Keyword/53593/eigensystem-realization-algorithm>

An eigensystem realization algorithm in frequency domain for modal parameter identification (1988)

<http://citeseerx.ist.psu.edu/showciting?cid=2478413>

Chiang DY, Lin CS, Su FH (2010) Identification of modal parameters from ambient vibration data by modified eigensystem realization algorithm. J Aeronaut Astronaut
http://link.springer.com/chapter/10.1007/978-81-322-2193-7_110

Pappa, Richard S. (NASA Langley Research Recent experiences using the eigensystem realization algorithm for modal identification of Mini-Mast are reported.
<http://ntrs.nasa.gov/search.jsp?R=19910010161>

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, Structural Modeling, Parameter Identification and Optimal Control for Large Engineering System, Journal of the Astronautical Sciences, 31, 3, 1983, 07,
<http://www.es.ncku.edu.tw/esncku/zh/page.teacher.query.action?id=11>

File Information; Description: The eigensystem realization algorithm (ERA) was first proposed by Juang and Pappa (1985) for modal parameter identification and model
<http://www.mathworks.com/matlabcentral/fileexchange/11183-seralab-demo--simple-eigensystem-realization-algorithm->

[lab](#)

620 J. GUIDANCE VOL. 8, NO. 5 An Eigensystem Realization Algorithm for Modal Parameter Identification and Model Reduction Jer-Nan Juang* and Richard S. Pappa*

<http://arc.aiaa.org/doi/pdf/10.2514/3.20031>

An Eigensystem Realization Algorithm for Modal Parameter Identification and Model Reduction (1977)

<http://citeseerx.ist.psu.edu/showciting?cid=1520683>

A new method called direct eigensystem realization algorithm (DERA) is developed for structural modal parameter identification. A direct procedure is presented for

<http://sem.org/Proceedings/ConferencePapers-Paper.cfm?ConfPapersPaperID=40779>

A new method called direct eigensystem realization algorithm (DERA) is developed for structural modal modal identification which use impulse response

<http://sem-proceedings.com/12i/sem.org-IMAC-XII-12th-Int-12-8-7-Direct-Eigensystem-Realization-Algorithm-DEW-A-New-Method-Modal.pdf>

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System Identification Using Frequency Scanning and the Eigensystem Realization Algorithm of modal system identification.

<http://www.dtic.mil/cgi-bin/GetTRDoc?AD=ADA283924&Location=U2&doc=GetTRDoc.pdf>

This paper presents the results of research work on modal identification of Tsing Ma improved eigensystem realization algorithm modal identification algorithm.

<http://www.sciencedirect.com/science/article/pii/S0022460X01937514>

Abstract. The eigensystem realization algorithm (ERA) is one of the most popular methods in civil engineering applications for estimating the modal parameters
<http://www.sciencedirect.com/science/article/pii/S1877705811012884>

Stochastic iterative modal identification algorithm and New accuracy indicator to quantify the true and false modes for eigensystem realization algorithm.
<http://doi.aiaa.org/10.2514/3.21092>

all focused on Eigensystem realization algorithm , and makes it easy to learn Algorithm for Modal Parameter Identification and
http://www.digplanet.com/wiki/Eigensystem_realization_algorithm

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An eigensystem realization algorithm for modal parameter identification and model reduction. [control systems design for large space structures

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