

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

**By Richard S Pappa**

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**An Observer Eigensystem Realization Algorithm for -**

An Observer Eigensystem Realization Algorithm for Time Domain Structure Identification based on Earthquake Record Identification of Modal Parameters

<http://library.jsce.or.jp/jsce/open/00035/2003/58-cs/58-cs-0011.pdf>

**NASA Technical Reports Server (NTRS) - An -**

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

<http://naca.larc.nasa.gov/search.jsp?R=19850064186&qs=N%3D4294961259%2B4294943937%2B4294704187>

### **Modal parameter identification by eigensystem -**

Titre du document / Document title Modal parameter identification by eigensystem realization algorithm Auteur(s) / Author(s) CHUANG M. T.; CHEN S. Y.; TSUEI Y. G.; <http://cat.inist.fr/?aModele=afficheN&cpsidt=17387329>

### **An Eigensystem Realization Algorithm in Frequency -**

This paper demonstrates the close conceptual relationships between time domain and frequency domain approaches to identification of modal parameters for linear systems. <http://vibrationacoustics.asmedigitalcollection.asme.org/article.aspx?articleid=1473246>

### **An eigensystem realization algorithm in frequency -**

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

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

### **DIRECT EIGENSYSTEM REALIZATION ALGORITHM (DERA) -**

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>

### **Browse subject: Structural dynamics -- -**

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<http://onlinebooks.library.upenn.edu/webbin/book/browse?type=lcsbc&key=Structural%20dynamics%20%2d%2d%20Mathematical%20models&c=x>

### **MODAL IDENTIFICATION OF TSING MA BRIDGE BY USING -**

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>

### **Catalog Record: Eigensystem realization algorithm -**

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### **Eigensystem realization algorithm - Wikipedia, -**

Eigensystem realization algorithm. The Eigensystem realization algorithm (ERA) is a system identification ERA can be used as a modal analysis

[http://en.wikipedia.org/wiki/Eigensystem\\_realization\\_algorithm](http://en.wikipedia.org/wiki/Eigensystem_realization_algorithm)

### **Aviation > NASA\_Miscellaneous\_Technical -**

Approaches to High Aspect Ratio Triangulations, NASA Technical Memorandum Richard S. Pappa, Algorithm Modal Identification Experiences With Mini

<http://archive.tpub-products.com/content/p/id/114/>

**member2 -**

,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>

**System Identification Using Frequency Scanning and -**

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>

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[http://www.digplanet.com/wiki/Eigensystem\\_realization\\_algorithm](http://www.digplanet.com/wiki/Eigensystem_realization_algorithm)

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**Identification and Monitoring of Modal Parameters -**

(NExT) combined with the eigensystem realization algorithm An eigensystem realization algorithm for modal parameter identification and model reduction.

<http://ascelibrary.org/doi/10.1061/%28ASCE%29AS.1943-5525.0000011>

**NASA Technical Reports Server (NTRS) - Eigensystem -**

Eigensystem realization algorithm modal identification experiences with mini-mast: NTRS Full-Text: Click to View [PDF Size: 367 KB] Author and Affiliation:

<http://ntrs.nasa.gov/search.jsp?R=19920010250>

**A CONSISTENT-MODE INDICATOR FOR THE EIGENSYSTEM -**

"An Eigensystem Realization Algorithm for Modal Parameter Identification Eigensystem Realization Algorithm Modal Identification Structural Dynamics Testin\$

[http://www.ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19920015464\\_1992015464.pdf](http://www.ntrs.nasa.gov/archive/nasa/casi.ntrs.nasa.gov/19920015464_1992015464.pdf)

### **Eigensystem Realization Algorithm - File Exchange -**

Eigensystem Realization Algorithm. M. Q. "Identification and Control of Mechanical Systems", modal testing; statespace realization;

<http://www.mathworks.com/matlabcentral/fileexchange/12848-eigensystem-realization-algorithm>

### **NASA Technical Reports Server (NTRS) - Modal -**

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>

### **A Consistent-Mode Indicator for the Eigensystem -**

years of experience in developing a practical implementation of the Eigensystem Realization Algorithm. Modal Identification, Modal Parameter Accuracy

<http://elib.dlr.de/39522/>

### **eigensystem realization algorithm -**

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>

### **General Realization Algorithm for Modal -**

R. A. De Callafon 1; B. Moaveni 2; J. P. Conte, M.ASCE 3; X. He 4; and E. Udd 5. 1 Associate Professor, Dept. of Mechanical and Aerospace Engineering, Univ. of

<http://ascelibrary.org/doi/10.1061/%28ASCE%290733-9399%282008%29134%3A9%28712%29>

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### **Identification of modal parameters from ambient -**

Identification of modal parameters from ambient vibration data using Keywords: Eigensystem Realization Algorithm with Data Correlation (ERA/DC);

<http://link.springer.com/content/pdf/10.1007%2Fs12206-010-1005-0.pdf>