A Bibliography of Publications of James H. Wilkinson

Sven Hammarling
The Numerical Algorithms Group
Wilkinson House
Jordan Hill Road
Oxford OX2 8DR
UK

Tel: ?n/a?
FAX: ?n/a?

E-mail: na.hammarling@na-net.ornl.gov (Internet)

20 February 2018
Version 1.56

Abstract

This bibliography records publications of the late James H. Wilkinson.

Title word cross-reference

A [PW69]. \( A u = \lambda Bu \) [PW74c, Wil77a]. \( Ax = \lambda Bx \)
[GUW72, MW68a, PW69, PW70a, Wil76]. \( B \)
[PW69]. \( Bx = Ax \) [Wil77a]. \( I - 2ww^H \)
[Wil65e]. \( LR \) [MW68d, PW70b, Wil65d]. \( QL \)
[BMRW68, MW68c]. \( QR \)
[BMRW68, MRW70, MPW70, PW70b, Wil65a, Wil65b, Wil68c, Wil69b]. \( QZ \)
[Wil78b, Wil79].

100s [Wil67c]. 12th [Jac76]. 15th [Jac76].
1954 [Wil55c]. 1986 [Fox87a, IP87]. 19th
[Jac78].

2 [Wil61e]. 22nd [Jac78]. 25 [DHW90].

6th [Pow77].

90s [Wil70c].

Accuracy [DMW81, DMW83, PW74a].
ACE [Wil75c, Wil51b, Wil52, Wil54a, Wil54b, Wil54c, Wil55a, Wil80b, Wil05].
ACM [Ash87]. Admissible
[OPW64, OPW65]. Advances
Wil77b, Wil80a, dBG78]. Alan
[CK12, Cop05]. Algebra
Wil54b, WR71, Wil74c, Wil74e, Wil77b, Wil78e, Wil86b, Wil80a, Par72]. Algebraic
[FWH48b, Gra66, Par66, Wil66a, Wil60b, Wil60d, Wil63d, Wil65b, Wil67e, Wil68d, Wil70a, Wil71c, Wil88, FHW48a, Wil67b, Wil94]. Algebraicheskaya [Wil70a].
Algebraicznych [Wil67b]. Algébraiques
Wil62a, Wil63a]. Algorithm
[GUW72, MW68c, MW68d, MPW70,
PW74b, Wat11, Wil65a, Wil68c, Wil69b, Wil78b, Wil79, MRW70. Algorithms [BMRW68, PW74c, Wil67f, Wil68e, Wil74c, Wil74g, Bar02, Wil65d, Wil61e, Wil70b].

Almost [SW81b, Wil58d, Wil59c, Wil67a, Wil68a]. Alston [Wil75a, Wil78a]. Analyst [Wil51a]. Analysis [IP87, Par90, Wil60a, Wil61a, Wil65a, Wil72d, Wil65e, Wil67c, Wil68b, Wil68d, Wil68e, Wil71a, Wil71e, Wil72c, Wil74a, Wil84c, Wil85, Wil86a, Jac76, Par87, Pow77, dBG78]. Analyst [Wil71f, Wil87c]. Applications [Jac78, JRW62]. Approximations [HW80]. April [IP87, Jac76]. Arising [HW80, PW71b]. Arithmetical [Wil63c]. Art [IP87, Wil84c, Jac76]. Aspect [Wil57a]. Aspects [Wil78f]. Assessment [SW80a, SW80b]. August [ICM75]. Automatic [Par72, Cop05, DW59, Wil48a, Wil48b, Wil51c]. availability [Jac78]. Award [Ash87, Wil75a, Wil78a].


[JRW62, Wil57a, Wil74c]. Direct
[Wil61b, Wil67c]. Discussion
[Wil71a, HNW48, Wil69b]. divisors
[Wil84a]. Dr [Pow77]. Dr. [Fox87b]. Drazin
[Wil78d, Wil82]. Durand [Wil62a, Wil63a].

Early [WCK89]. Editor [RW62]. efficient
[RW61]. Eigenproblem
[MW68a, PW70a, Wil60b, Wil72b].
Eigen systems [GW75, GW76, PW74a,
Wil61f, Wil66b, Wil74d]. Eigenvalue
[DGW82, DGKW84a, Par66, PW74c,
SW80a, Wil66a, Wil62d, Wil65b, Wil70a,
Wil71c, Wil77a, Wil87a, Wil88, SW80b].
Eigen values [BW67, DMW81, DMW83,
HVW70, PW69, Wil65a, Wil67a, Wil68a,
Wil84b, Wil86c, Wil62b]. Eigenvector
[SW80a, SW80b]. Eigenvectors
[DMW81, DMW83, MW68a, MW68b, Wil62f,
Wil67c, Wil68b]. F. R. S. [Fox87b]. Facilities [Wil57c].

Feingold [Wil87b]. Fifth [HW76b]. Finding [Wil55d]. Finite [HW80]. first
[Ash87]. Floating [Wil60a, Wil63c].
Floating-Point [Wil60a, Wil63c]. Ford
[PW74b]. Foreward [FW75]. Form
[GW75, GW76, MW68a, MW68b, Wil62f,
Wil78b, Wil78c, Wil79, Wil65e]. Forms
[Wil58d, Wil59c, Wil68b]. Forsythe [Bar02].
Francis [Wat11].

G [Wil67c]. Gauss [PW75]. Gaussian
[OW82]. General [MW68b].
Generalization [Wil70d]. Generalized
[PW70a, PW74c, Wil77a]. Gerschgorin
[HVW70]. Givens [RW61, RW62, Wil77b].
Gladwell [Wil67c]. Global
[Wil68c, Wil69b]. GPO [Wil51a]. Great
[Wil57c]. Gregory [Wil70b].

H [CDD87, Eva76, Fox87b, Gra66, Par66,
Par87, Par90, Par72, Pow77]. Handbook
[Wil70c, Wil74b, Par72]. Hardy [Fox87a].
held [IP87, Jac76, Jac78, Pow77].
Herman [DGW82, DGKW84a].
Hessenberg [MW68d, MW68b, MPW70].
History [MHR80, Nas90]. Hoffman
[Wil70d]. Householder [Wil78a, MRW68,
RW62, Wil60b, Wil62e, Wil75a].
Hyperbolic [Wil57e, Wil61c].

II [Par72, Wil63a, Wil59b, Wil71c, Wil86c].
II. [Wil51c]. Ill
[GW75, GW76, PW79, Wil67d, Wil74d,
Wil86b, Wil59a, Wil59b, Wil72b].
Ill-Condition [Wil86b]. Ill-Conditioned
[GW75, GW76, PW79, Wil67d, Wil74d,
Wil59a, Wil59b, Wil72b]. IMA [IP87].
IMA/SIAM [IP87]. Implicit [MW68c].
Improving [DMW81, DMW83]. Including
[DGKW84b]. Inclusion [HVW70]. Infinite
[Wil57h]. Instability [Wil62f].
International [ICM75]. Interpolation
[Wil67f]. Interview [Eva76]. Introduction
[Wil71c, Wil71b]. Introductory
[Wil71d, Wil71a]. Invariant
[DHW90, PW74a, SW81a, Wil75b, DHW92].
Inverse [PW71a, PW79, Wil72a, Wil74d, Wil78d, Wil82, Wil62c]. Inverses [PW70c].
Inversion [DHW84b, Wil61b, Wil70c].
Inverting [Wil74g]. Iteration
[FW79, Wil72a, Wil74d, PW71a, Wil62c].
Iterative [GW66a, GW66b, PW79, Wil72a, Wil74d, PW71a].
Jacobi [Wil62g]. James [CDD87, Fox87a]. Joan [Wil70c].
John [Wil70b, Wil70c]. Joint [IP87].
Jordan [GW75, GW76, PW75]. July [Pow77].
Karney [Wil70b]. Kronecker [Wil78b, Wil78c, Wil79].
L [Wil67c, Wil70b]. Laboratory
[DW59, Wil48a, Wil55a, Wil58c, Wil72c, Wil80b, Wil05]. Lamé [Wil65c]. Lanczos
[GUW72, Wil75b, Wil58a]. LAPACK [DHW90]. Large [Wil63b]. Large-Scale
[Wil63b]. Latent [Wil54a, Wil55d, Wil57f]. Least [GW66a, GW66b, PW70c, Wil71b].
[BMPW66, FHW48b, HW76a, HW80, OPW64, OPW65, Par72, Wil54b, Wil57g, Wil60c, Wil61d, Wil67d, Wil67e, Wil67f, Wil70c, Wil71b, WRT71, Wil74a, Wil74c, Wil74e, Wil74g, Wil76, Wil77b, Wil77c, Wil78c, Wil78e, Wil86b, FHW48a, Wil80a].
Loading [Wil57a]. Logical [Wil51c].
London [Pow77, Wil67c]. Ltd [Wil70b].
M [Wil67c]. machine [CK12]. machines
[HNW+48, Wil55b]. Madison [dBG78].
Manitoba [HW76b, MW81]. Masson
[Wil62a, Wil63a]. master [Cop05].
Mathematicians [ICM75]. Mathematics
[Eva74, HW76b, MW81, dBG78]. Matrices
[BMRW68, DGW82, DGKW84a, HVW70, MW65, MW67, MW68d, PW70b, SW81b, Wil54a, Wil55d, Wil57b, Wil57g, Wil57f, Wil58b, Wil61d, Wil65a, Wil65e, Wil66b, Wil67a, Wil68a, Wil70b, Wil74g, MW70, MPW70, Wil62e, Wil72b, Wil84a]. Matrix
[CMSW79, MPW65, MW68b, Wil58c, Wil58d, Wil59c, Wil61b, Wil62f, Wil67c, Wil67e, Wil68b, Wil68e, Wil70c, BW76, MRW68, RW61, Wil62b, Wil62c]. May
[DBG78]. Memory [CDD87]. Method
[BW67, PW79, Wil58a, Wil60b, Wil62f, RW61, Wil62b, Wil62e]. Methods
[FHW48b, HW76a, Wil55d, Wil60c, Wil61b, Wil67e]. Michaelson [Wil67c]. minfit
[Wil74f]. Model
[Wil51b, Wil51c, Wil52, Wil54a]. Modern
[Wil71e, Cop05]. Modified [MW68d].
Multiple [Wil65a, Wil67a, Wil68a].
National [DW59, Wil48a, Wil55a, Wil58c, Wil72c, Wil80b, Wil05]. needs [Jac78].
neighbouring [Wil84a]. Newton [PW79].
NF [Wil62a, Wil63a]. No [DHW90]. Note
[DHW90, GW66b, HWV70, Wil62g, Wil72b, Wil74d, Wil78d, Wil82]. Notes [FHW48a].
NPL [Wil75c]. Number [CMSW79].
Numerical [DHW90, DHW92, Eva74, HW76b, IP87, Jac78, MW81, Par90, Wil63b, Wil70c, Wil71a, Wil71f, Wil72c, Wil74e, Wil77b, Wil78e, Wil86b, CH90, Jac76, Par87, Pow77, Wil80a, Wil87c, dBG78].
Numériques [Wil62a, Wil63a].
Obituary [Fox87b]. October
[Fox87a, HW76b, MW81]. Optimum
[Wil55a]. Orbit [DGKW84b]. Origin
[Wil68c]. Orthogonal [Wil62d, Bar02].
Oscillating [Wil57b]. other [CK12].
p139 [Wil74b]. pages [Wil67c, Wil70b].
Paris [Wil62a, Wil63a]. Part
[Wil71c, Wil71b]. Partial
[Wil57e, Wil61c, Wil71a]. Particular
[HW76a]. SIAM [IP87]. Perfidious
[Wil84d]. Physical [DW59, Wil48a, Wil55a, Wil58c, Wil72c, Wil80b, Wil05]. Pilot
[Wil51b, Wil51c, Wil52, Wil54a, Wil54b, Wil54c, Wil55a, Wil75c, Wil80b, Wil05]. Pivoting [PW75]. Plane [Wil63c]. Point
[Wil60a, Wil63c]. Polish [Wil67b].
Polynomial
[PW71b, PW74b, Wil84d, Bar02, Bar03]. Polynomials [Wil65c, Wil59a, Wil59b]. Positive [MW65, MPW65, MPW66]. Posteriori [OW82]. pp
[Wil62a, Wil63a, Wil70c]. Practical [HW76a, PW71b, Wil78d, Wil82]. Practice
[Wil72a]. Precision [Wil77c]. Press [Wil76c]. Priori [Wil68d]. Problem
DGW82, DGKW84a, GUW72, PW70c, PW74c, Wil65b, Wil70a, Wil71c, Wil77a, Wil78c, Wil88, Par66, Wil66a]. problema
[Wil70a]. Problems
[MW68a, PW71b, Wil63b, Wil67c, Wil87a]. Proceedings [HW76b, ICM75, IP87, Jac76, MW81, Pow77, Jac78, dBG78]. Procesach
[Wil57b]. Programmes [Wil51a]. Programming [Wil51b, Wil52, Wil71b]. Programs [Wil58c]. Progress
[Wil48b, Wil57a]. Proof [Wil70d]. Pseudo [PW70c]. Pseudo-Inverses [PW70c].
Punched [FHW48b].

quadratic [Wil62g, Wil84a].

R [Wil67c]. Radar [Wil51a]. Ratio
[Wil57h]. Readings [BN71]. Real
BMPW66, PW70b, Wil65a, MPW70]. Realistic [SW80a, SW80b]. Reducing
[Wil62f]. Reduction
[MW68a, MW68b, Wil58d, Wil59c]. Reference [HW76a]. Refinement
[GW66a, GW66b, MPW66]. Reinsch [Part2]. Related [MW68a, Wil65d].

Reliable [CH90]. Remarks
[Wil61e, Wil71a, Wil71d]. Report
[Wil48b, Wil51c, Wil55c]. Research
dBG78]. Residual [Wil77c]. Reversal
DGW82, DGKW84a, DGKW84b]. Review
Gra66, Par66, Par72, Wil66a, Wil62a, Wil63a, Wil67c, Wil70b, Wil70c]. Revisited
[Wil86a]. Rigorous [Wil61f]. Robert
[Wil70b]. Roots [Wil54a, Wil55d, Wil57f]. Rotations [Wil63c]. Rounding
[Bar02, Wil60d, Wil63d, Wil94, Bar03, Wil67b, Gra66]. Rundungsfehler [Wil69a].
Russian [Wil70a].

S [Wil67c, Wil75a, Wil78a]. S.O.R.
[HW76a]. Scale [Wil63b]. scheme [RW61]. Scientific [JRW62, Nas90]. Secular
DGKW84b]. Sensitivity [Wil84b, Wil86c]. September [Fox87a, Jac78, Wil55c]. series
[Bar02, TW05]. Sharply [OPW64, OPW65]. Shifts [Wil68c]. Significance
[Wil78d, Wil82]. Similarity
[MW68b, Wil58d, Wil59c]. Simple
[SW80a, SW80b]. Simultaneous
[FHW48b, FHW48a]. Single [Wil77c].
Single-Precision [Wil77c]. Singular
[Wil74f, Wil78f]. Singular-Value [Wil78f].

sobstvennyh [Wil70a]. Software
[Ev74, Jac78]. Solution [BMPW66, FHW48b, GW66a, GW66b, MPW66, MW67, PW71b, PW74c, Wil60b, Wil67d, Wil67e, Wil70c, Wil74a, Wil77c, FHW48a].

Solutions
[OPW64, OPW65, Wil62a, Wil63a]. Solving
DGKW84b, Wil60c, Wil74g]. Some
[PW74c, Wil71f, Wil77b, Wil80a, Wil87c]. Sons [Wil70b, Wil70c]. Special [CDD87].
Specific [PW71a]. Spin [DGKW84b].
Square [GW66a]. Squares
[GW66b, PW70c, Wil71b]. Stability
PW75, Wil58d, Wil59c]. Standard
[MW68a]. State
[Wil84c, Wil85, Jac76, IP87]. store [RW61].
Stream [Wil57h]. Structures [BN71].
struggle [Cop05]. Subsonic [Wil57h]. Subspaces [DHW90, PW74a, SW81a, Wil75b, DHW92]. Successive [Wil67f]. Survey [Wil68e]. Sussex [Jac78]. Symmetric [BW67, BMRW68, GUW72, MW65, MPW65, MW67, MW68a, PW69, PW74c, Wil65a, MRW68, MRW70, RW61, Wil62b, Wil62c, Wil62e]. Symmetry [DGW82, DGKW84a, DGKW84b]. Symposium [Pow77, dBG78]. System [MPW66, Wil55a, Wil77a]. Systems [BMPW66, DGKW84b, HW80, OPW64, OPW65, Wil71b, Wil74a, Wil74g, Wil77c].


w [Wil67b]. Westlake [Wil70c]. Wielandt [Wil70d]. Wiley [Wil70b, Wil70c]. Wilkinson [Fox87a, Fox87b, Gra66, Par66, Par72, Pow77, CDD87, Eva76, Par87, Par90, TW05]. Wing [Wil77h]. Wisconsin [dBG78]. Work [Wil80b]. Working [DHW90].

years [Ash87]. York [Jac76, Wil70c]. Zaokraglen [Wil67b]. zeros [Wil59a, Wil59b]. znachenii [Wil70a].
Barrio:2003:URE


Bowdler:1966:SRC


Bowdler:1968:ASM


Bell:1971:CSR


Barth:1967:CES


Chatelin:1987:SVM


Cox:1990:RNC


Campbell-Kelly:2012:ATO

Martin Campbell-Kelly. Alan Turing’s other universal machine. Communications of the
REFERENCES


Copeland:2005:ATA


DeBoor:1978:RAN


Dongarra:1984:EPH


Dongarra:1984:SSE


Dongarra:1982:EPH

<table>
<thead>
<tr>
<th>REFERENCES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>lished as [DGKW84a] where D. D. Koelling is also an author.</td>
<td></td>
</tr>
<tr>
<td><strong>Dongarra:1990:NCC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dongarra:1992:NCC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dongarra:1981:IAC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Dongarra:1983:IAC</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Davies:1959:ACE</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Evans:1974:SNM</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Evans:1976:IJH</strong></td>
<td></td>
</tr>
<tr>
<td><strong>Fox:1948:QMA</strong></td>
<td></td>
</tr>
</tbody>
</table>
REFERENCES


[GW75] G. H. Golub and J. H. Wilkinson. Ill-conditioned eigensystems and the computation of the Jordan canonical form. Technical Report STAN-CS-75-478, Computer Science Department, Stanford University, Stanford,
REFERENCES

California 94305, USA, 1975. Published as [GW76].

Golub:1976:ICE


Hartree:1948:DCM


Householder:1970:NGI


Hammarling:1976:PBL


Hartnell:1976:PFM


Hammarling:1980:LSA


ICM:1974:PIC


Iserles:1987:SAN

REFERENCES

Jacobs:1976:SAN

Jacobs:1978:NSN

JRW62

Metropolis:1980:HCT

Martin:1965:SDPb

Martin:1966:IRS
REFERENCES

Martin:1970:ARH


Martin:1968:HTS


Martin:1970:ABS


Martin:1965:SDPa


Martin:1967:SSU


Martin:1968:RSE


Martin:1968:SRG


Martin:1968:IA

REFERENCES

ISSN 0029-599X (print), 0945-3245 (electronic). Also in [WR71, pp. 241–248], where A. A. Dubrulle and is listed as the lead author.


REFERENCES


REFERENCES


REFERENCES


[SW80b] H. J. Symm and J. H. Wilkinson. Realistic error bounds for a sim-
REFERENCES

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
</tr>
</thead>
</table>
REFERENCES

URL http://www.alanturing.net/turing_archive/archive/1/110/L10-001.html.


REFERENCES

Wilkinson:1955:RVU


Wilkinson:1955:UIM


Wilkinson:1957:BPD


Wilkinson:1957:CEC


Wilkinson:1957:CFG


Wilkinson:1957:EUD


Wilkinson:1957:HPD


Wilkinson:1957:LRM


Wilkinson:1957:LOW


Wilkinson:1958:CEM


Wilkinson:1958:LEH

REFERENCES


Wilkinson:1958:CEC


Wilkinson:1958:MPN


Wilkinson:1958:SRM


Wilkinson:1959:EZIa


Wilkinson:1959:EZIb

REFERENCES

Wilkinson:1959:SRM


Wilkinson:1960:EAF


Wilkinson:1960:HMS


Wilkinson:1960:MSL


Wilkinson:1960:REA


Wilkinson:1961:EA


Wilkinson:1961:EAD


Wilkinson:1961:HPD

REFERENCES

Wilkinson:1961:LEM


Wilkinson:1961:RA


Wilkinson:1961:REB


Wilkinson:1962:BRB


Wilkinson:1962:CESa

367, December 1962. CODEN NUMMA7. ISSN 0029-599X (print), 0945-3245 (electronic).

Wilkinson:1962:CESb


Wilkinson:1962:EAE


Wilkinson:1962:HMS


Wilkinson:1962:IEM


Wilkinson:1962:NQC


Wilkinson:1963:BRB


Wilkinson:1963:ELS


Wilkinson:1963:PRF


Wilkinson:1963:REA


Wilkinson:1965:ARS


Wilkinson:1965:AEP


Wilkinson:1965:CLP

REFERENCES

Wilkinson:1965:CRA


Wilkinson:1965:EAT


Wilkes:1966:BRB


Wilkinson:1966:CEM


Wilkinson:1967:ADM

J. H. Wilkinson. Almost diagonal matrices with multiple or close eigenvalues. Technical Report CS 59, Computer Science Department, Stanford University, Stanford, California 94305, USA, 1967. Published as [Wil68a].
[Wilkinson:1967:BZW]


[Wilkinson:1967:BRB]


[Wilkinson:1967:SIC]


[Wilkinson:1967:TAB]


[Wilkinson:1968:ADM]


[Wilkinson:1968:BFE]


[Wilkinson:1968:GCT]

<table>
<thead>
<tr>
<th>Reference</th>
<th>Title</th>
<th>Details</th>
</tr>
</thead>
</table>
Wilkinson:1971:DNA

Wilkinson:1971:IPL

Wilkinson:1971:IP1

Wilkinson:1971:IR

Wilkinson:1971:MEA

Wilkinson:1971:SCN

Wilkinson:1972:IIT

Wilkinson:1972:NMV

Wilkinson:1972:NAN

Wilkinson:1974:CEA
J. H. Wilkinson. The classical error analysis for the solu-
REFERENCES


J. H. Wilkinson. The singular value decomposition and minfit.


REFERENCES


REFERENCES


