A Bibliography of Publications of Nicholas John Higham

Nicholas John Higham
School of Mathematics
University of Manchester
Manchester M13 9PL
England

Tel: +44 (0)161 275 5800
FAX: +44 (0)161 275 5819
E-mail: nick.higham@manchester.ac.uk (Internet)

07 February 2019
Version 1.80

Abstract

This bibliography records publications of Nicholas John Higham.

Title word cross-reference

1 [CH01a, CH01b, HT00]. 2 [HR14b]. 3 [HN16]. $57.00 [Hig05a]. T [Hig99f]. a [CDHJ07]. A^n, log(A) [HHT08]. AX − XB = C [Hig92f, Hig93f, Hig93e]. C_n(x) [Hig93b, Hig96b, Hig97a]. f [DH05]. f(A) b [DH05]. J [Hig03a]. LU [DHS95]. LDL^T [Hig97f]. p [BHM05, GH06, Hig92a, HL11a]. QR [CH97b, Hig90h, Hig91b, Hig98a, Hig00a, Hig03b]. S_n(x) [Hig93b, Hig96b, Hig97a]. s exp(s) = a [CDHJ07]. W [CDHJ07, FHI15].

-Norm [CH01a, CH01b, HT00, Hig92a]. -Orthogonal [Hig03a]. -th [HL11a].

0 [Hig05a]. 0-471-11111-2 [Hig99a]. 0-89871-561-X [Hig05a].


2017 [BBdD17]. 24th [BBdD17].

60th [Hig92b]. 679 [DDHD90].

'98 [ALM99].

Accelerating [CH18]. acceleration [HS16a]. Accuracy [CH97a, CH99c, Hig89a, Hig96a, Hig98e, Hig99d, Hig02a, Hig05a, CHKL01, Hig93a].

Accurate [Hig90f, Hig98a, CH17, Hig00a, Hig00b].

Acta [Hig96d]. Action [AMH11, HK17, Fis17]. Advanced [MGD93]. Again [HS98]. Al [Fis17].

Al-Mohy [Fis17]. Algebra [DDHD90, Hig85b, HS87, Hig94d, Hig94e,
Hig95e, Hig97d, Hig97j, Hig98e, Hig99a, Hig99b, Hig00c, HHL01, Hog07, MGD93, MP93, Hig99e. Algebraic [Bro07, GH07].

Algorithm
[AMH10b, BHH93, CH96b, CH98a, CH01a, CH01b, DH03, GHT10, Hig88a, Hig91a, HP94a, HP94b, HT00, Hig93b, HL11b, AMH09b, BH10, FH11, FT09b, HL13, HN16, DDHD90, Hig89c].

Algorithms
[AMH12, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, Hig96a, Hig98e, Hig99d, Hig02a, Hig06, NH13, AMHR15, BHP03a, FH18a, HH05a, Hig96f].

Alley [Hig01b]. alternating [HS16a]. always [CDHJ07]. Analysis
[ALM99, DHT01, Hig87b, Hig90a, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC99, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d]. Analyst [Hig99c].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].

Analysis
[AMH912, AH16, BHM05, DH16, DH90b, DH92a, Hig86b, Hig87b, Hig90k, HK93a, Hig97e, Hig98b, Hig99d, IP87, THDC09, BBDH14, CH17, DW97, Hig93e, HWG98, HK00, ALM99, Hig02d].
Computational [GH04]. Computations [HHK93, Hig85a, Hig86c, Hig89d, Hig90i, Hig93d, Hig96f]. compute [HN16].

Computer [BBdD17]. Computers [Hig00c]. Computing [AMH08, AMH09a, AMH11, AMHR13, BHR10, BH95, BH96, DH03, DH05, HHT08, Hig86a, Hig86b, Hig87a, HS87, Hig88b, Hig90c, HP94a, HP94b, Hig02b, HS03, HMMTO4, Hig05a, HAM10, HK17, NH18, NH12, THDC09, AMHR15, AH14, FH18a, Fis17, HS16a]. Computing/Numerical [THDC09].

Condition [AMH09a, Hig83a, Hig86b, Hig87c, Hig88a, Hig89c, HH92a, HH96b, HH98, HH99, HR14b, AMH08, AMHR13, Hig83b, HR14a]. conditioned [CH17]. Conditioning [HMT06]. Conference [HWG98, HHL01, IP87]. Confluent [Hig90k]. Connection [BHH93]. Conquer [NH13]. Constrained [CH97a, CH98c, CH98d, CH99c, CH00, BHP03a, CH99b].

Continuation [BH95, BH96]. contour [HHT08]. control [HT02]. cores [HTDH18]. Correlation [BHR10, DH00, HS16b, HSS16, AHTW01, BH10, GHP18, Hig02b, HS16a].

Corrigendum [Hig89c]. Cosine [HS03, AMHR15, HH05a]. Course [HL15]. Covariance [LHP14]. Craft [Hig01b].

D [Hig99a, Hig99e]. Danny [Hig00c]. Dario [Hig96f]. Decomposition [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMTO4, HMT10, NH12, NH13, HMT10, HN16]. Definite [CH98b, DHT01, GHT10, Hig96c, HMMTO9, CH99a, GHT09b, Hig90a, Hig98c, HTV02].

Definiteness [HS85]. Dense [Hig97d]. Derivative [AMH09a, AMH08, AMH10a, AMHR13, HR14a]. Derivatives [HR14b, HL13]. Detecting [GHT08, GHT09a, GHT10, HTV02, GHT09b].

Developing [THDC09]. Developments [Hig97d]. Diagonal

Dense [Hig97d]. Danny [Hig00c]. Dario [Hig96f]. Decomposition [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMTO4, HMT10, NH12, NH13, HMT10, HN16]. Definite [CH98b, DHT01, GHT10, Hig96c, HMMTO9, CH99a, GHT09b, Hig90a, Hig98c, HTV02].

Condition

Confluent [Hig90k]. Connection [BHH93]. Conquer [NH13]. Constrained [CH97a, CH98c, CH98d, CH99c, CH00, BHP03a, CH99b].

Continuation [BH95, BH96]. contour [HHT08]. control [HT02]. cores [HTDH18]. Correlation [BHR10, DH00, HS16b, HSS16, AHTW01, BH10, GHP18, Hig02b, HS16a].

Corrigendum [Hig89c]. Cosine [HS03, AMHR15, HH05a]. Course [HL15]. Covariance [LHP14]. Craft [Hig01b].

D [Hig99a, Hig99e]. Danny [Hig00c]. Dario [Hig96f]. Decomposition [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMTO4, HMT10, NH12, NH13, HMT10, HN16]. Definite [CH98b, DHT01, GHT10, Hig96c, HMMTO9, CH99a, GHT09b, Hig90a, Hig98c, HTV02].

Definiteness [HS85]. Dense [Hig97d]. Derivative [AMH09a, AMH08, AMH10a, AMHR13, HR14a]. Derivatives [HR14b, HL13]. Detecting [GHT08, GHT09a, GHT10, HTV02, GHT09b].

Developing [THDC09]. Developments [Hig97d]. Diagonal

Dense [Hig97d]. Danny [Hig00c]. Dario [Hig96f]. Decomposition [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMTO4, HMT10, NH12, NH13, HMT10, HN16]. Definite [CH98b, DHT01, GHT10, Hig96c, HMMTO9, CH99a, GHT09b, Hig90a, Hig98c, HTV02].

Definiteness [HS85]. Dense [Hig97d]. Derivative [AMH09a, AMH08, AMH10a, AMHR13, HR14a]. Derivatives [HR14b, HL13]. Detecting [GHT08, GHT09a, GHT10, HTV02, GHT09b].

Developing [THDC09]. Developments [Hig97d]. Diagonal

Dense [Hig97d]. Danny [Hig00c]. Dario [Hig96f]. Decomposition [Hig86a, Hig90a, HS90, HP93, Hig94c, HP94a, HP94b, HMMTO4, HMT10, NH12, NH13, HMT10, HN16]. Definite [CH98b, DHT01, GHT10, Hig96c, HMMTO9, CH99a, GHT09b, Hig90a, Hig98c, HTV02].

Definiteness [HS85]. Dense [Hig97d]. Derivative [AMH09a, AMH08, AMH10a, AMHR13, HR14a]. Derivatives [HR14b, HL13]. Detecting [GHT08, GHT09a, GHT10, HTV02, GHT09b].

Developing [THDC09]. Developments [Hig97d]. Diagonal
Factorization
[BHP03b, CH96b, CH98a, CH97b, CH98c, DHS92, DHS95, Hig90h, Hig91b, Hig97f, Hig98a, HM19, Hig99f, Hig00a, Hig00b].
Factorizations [Hig07b].
Factorizing [Hig96c, Hig98c].
Factors [DH00, HH89].
Fast [DH90b, DH92a, Hig88c, Hig90e, Hig90g, HS90, HTDH18].
Featured [Hig99b].
Field [BH95, BH96].
FIMA [FH18b].
Finance [Hig02b].
Finite [BH95, BH96].
Fitting [Hig99c].
Fixed [HSS16].
Floating [Hig91d, Hig93a].
Folkmar [Hig05a].
FORTRAN [Hig88a, Hig89c].
fp16 [Hig18c, HTDH18].
Fractional [HL11b, HL13].
framework [GHT11].
Frechet [AMH08, AMH09a, AMHR13, HL13, HR14a, HR14b].
FTP [Hig92c].
Function [DH16, Hig91a, AH14, CDH97, FHI18, HH15, HK17, NH18, DH90, HHT08, HAM10].
Fundamental [Hig96f].
G [Hig90i].
Gaussian [HH89, Hig90b, Hig90f].
Gene [Hig06, CGO07, Hig08c, Hig08d].
Generalized [CH98b, DHT01, HH96b, HH98, HH99, HMT10, CH99a, HMT10].
Generation [DH00, Hig03a].
Gives [Hig16a].
Golub [Hig00i, Hig06, CGO07, Hig92b, Hig98c, Hig98d].
Gover [Hig90a].
GPU [HTDH18].
Graduate [ALM99].
Greet [GH04].
Groups [HMT04, HMT05].
Growth [HH89].
Guide [ALM99, HH00, Hig01b, HH05b, HH17].
H [CGO07, Hig90i, Hig96, HF17].
Half [Hig18c].
Hand [HH92b].
Handbook [Hig93c, Hig94b, Hig98d, Hig07].
hardcover [Hig05a].
Harnessing [HTDH18].
held [IP87, MP93].
Henk [Hig00c].
Hermitian [CH98b, CH99a, GHT09b, GHT10, HTV02].
High [Hig00c, Hig05a, THDC09].
High-Accuracy [Hig05a].
High-Performance [Hig00c, THDC09].
Higham [Fis17].
Higher [HR14b].
Historical [Hig16b].
Hopkins [Hig90i].
Hosts [HHK93, Hig97c].
Householder [CH97b, CH98c].
Howard [Hig95e].
Hyperbolic [AH16, BHP03b, GHT09a, HK17, GHT08, HTV02].
Iain [Hig00c].
Identities [DH16].
IEEE [BBdD17].
ill [CH17].
il-conditioned [CH17].
IMA [IP87, Hig92b].
IMA/SIAM [IP87].
Imaginary [Hig96c, Hig98c].
Implementation [CH01a, CH01b, DDP94, DDHD90].
Improved [BBDH14].
Improved [AMH12, DH90a, DH93, GHT09b, HL13].
Inaugural [Hig97c].
Indefinite [BHP03b, CH96b, CH98a, BHP03a].
Industrial [Hig00c].
Inertia [HC96, HC98].
influence [DH13, Hig14].
Institute [MP93, MGD93].
insurance [GHT08].
Integrals [HHT08].
Integrators [AMH11].
International [Bro07, HHL01].
interpolation [Hig04].
Interview [Hig05b, Hig05c, Hig05a, Hig08d].
Introduction [Hig93b, Hig96b, Hig97a].
Inverse [AMH12, Hig16, GH06, HP94c, Hig06].
Inversion [BBH13, DH90c, DH92b].
Involving [Hig98c].
Irish [Hig97c].
ISBN [Hig99a, Hig05a].
Iteration [KK93b].
Iterations [Hig97h, HMT05, NH12, Hig97i].
Iterative [CH18, DHT01, GH07, Hig90b, Hig91b, HK93a, Hig95d, Hig95a, Hig96e, Hig97b, CH17, HTD18].
J [Hig90i].
Jack [Hig00c].
Jacobi [BBDH14].
James [Hig97c].
January [MP93].
Joan [FH18b].
John [Hig99a].
Joint [IP87].
Jörg [Hig05a].
Joy [Hig92c].
July [Bro07, BBdD17].
June
Kernel [NH18]. Knuth [Hig16a].

Lagrange [Hig04]. Lambert
[CDHJ07, FH15]. Lancaster
[Hig05b, Hig05c]. Lanczos
[Hig93b, Hig96b, Hig97a, BH95, BH96].

LAPACK
[CH01a, Hig92d, Hig95d, Hig95a, Hig97b].

Large [HH89, MGD93]. Largest [HR16].

Laurie [Hig05a]. Lax [Hig99a, Hig99e].

LDL [Hig99f]. Least
[BHP03b, CH97a, CH98c, CH98d, CH98e, CH99c, CH00, BHP03a, CH99b].

Lecture [ALM99, Hig16a]. lectures [MP93].

Leuven [MGD93]. Level [DDP94, DH90b, DH92a, Hig90e, HR14b, DDHD90]. Level-
[HR14b]. Level-3 [DDP94, DH92a]. like
[Hig88c, Hig90k]. Line [HK02, HK01].

Linear [CH18, DDHD90, Hig85b, HS87, Hig90h, Hig91b, Hig91c, HH92a, HH92b, Hig94d, Hig94e, Hig95d, Hig95e, Hig97d, Hig97j, Hig98c, Hig99a, Hig99b, Hig00c, HHL01, Hig02h, MP93, CH17, GHT11, Hig97b, Hig99e, MP93, MGD93].

Linearization [HLT08, HMT09, HLT07].

Linearizations
[HMT06, HMT07b, HMT07a, Lloyd
[Hig07c]. Loan [Hig90i]. Logarithm
[AMH12, AMHR13, CHKL01, FH18a, Hig01a]. London [BBdD17]. Longman
[Hig96c]. loss [LHP14]. Low [HM19].

Low-Rank [HM19]. LU [DHS92].

M [Hig90j]. Machine [BHH93]. Magnus
[Hig96e]. management [GHP18].
Managers [Hig01b]. Manchester
[GH04, Hig97c]. March [Hig92d]. Mark
[Hig07c]. Markov [MP93]. Maryland
[Hig90i]. Matching [AH16]. Math.
[Hig93b, Hig96b, Hig97a]. Mathematical
[Hig93c, Hig94b, Hig94f, Hig16b, Hig98d]. Mathematicians [GH04]. Mathematics
[Hig96e, Hig99a, Hig00c, HDG+15, MP93, Hig14]. MATLAB [Hig89b, Hig91a, HH00, Hig02c, HH05b, HH17, Hig93g, Hig95g].

Matrices
[DH00, Hig87c, Hig89b, Hig91a, Hig92e, Hig96c, HC96, HC98, Hig03a, Hig07c, Hig08b, HS16, Hig98e, Hig07a, HL11a].

Matrix
[AMH09a, AMH10b, AMH11, AMH12, AH16, BHH93, BHR10, CGO07, CH01a, CH01b, DH03, DH90c, DH92b, G06, Hig83a, Hig85a, Hig86b, Hig86c, Hig86d, Hig87a, Hig88a, Hig88b, Hig89c, Hig89d, Hig89e, Hig90a, Hig90e, Hig90d, Hig90g, HS90, Hig90i, Hig90j, Hig92a, Hig92e, Hig93d, Hig93g, Hig94c, HK95, Hig95g, Hig96f, Hig97e, Hig97f, Hig97h, HT00, HT01, HK02, HS03, HMT04, HMT05, Hig05d, HMT06, Hig07b, HMT07b, HMT09, Hig09, HL11b, HR14b, Hig15, HL15, HS16b, HR16, HK17, NH18, AMH08, AMH09b, AMH10a, AMHR13, AMHR15, AHTW01, AH14, BMH05, BH10, CHKL01, DH05, FHI15, FH18a, Fis17, GHP18, HHT08, HH05a, Hig83b, Hig97i, Hig99f, HK00, Hig01a, HK01, Hig02b, HT03, HMT07a, Hig08a, HAM10, HL13, HR14a, HS16a, HN16, Hig02c, Hig08e].

Measures [Hig91d, AHH16]. Meeting
[Hig97c]. Method [BH95, BH96, CH97a, CH99c, DHT01, Hig06, Hig86d, Hig92e, HP04c, Hig95b, Hig97g, HK02, Hig95d, Hig09, BBDH14, HK01, HS16a]. Methods
[CH98d, CH00, DH90c, DH92b, Hig90h, Hig91b, HK93a, Hig96c, Hig98b]. Michael
[Hig01b]. Microcomputer [Hig85a, Hig86c].

Milestones [CGO07]. MIMD [DDP94].

mixed [HTDH18]. mixed-precision
[HTDH18]. Model [DDHD90]. models
[MP93]. Modified [CH96b, CH98a].

Modifying [HC96, HC98]. Mohy [Fis17].

Moiler [Hig99c]. Moody [Hig06]. MPI
[BBDH14]. Multiple [HH92b].

Multiplication [Hig90e, Hig90g].

Multiplications [Hig92e]. Multiplying
[Hig92e]. Multiprecision [FH18a, Hig17].

N [Hig07c]. Nat. [Hig93b, Hig96b, Hig97a]. NATO [MGD93]. Nearest [BHR10, CH98b, Hig88b, HS16b, BH10, CH99a, Hig02b, HS16a]. Nearestness [Hig95b, Hig98e, HTV02]. Neumaier [Hig92d]. Neumann [Hig16a]. News [Hig98b]. Newton [BH10, GH06, Hig86d, HK01, HK02].

NLEVP [BHM+13]. nonlinear [BHM+13, GHT11]. Nonnormal [Hig92e].

Nonsymmetric [GH07]. Norm [CH01a, CH01b, Hig88a, Hig89e, Hig90c, HT00, Hig92a]. normwise [DH13]. Nothing [HS98]. Null [CH97a, CH99c]. Number [AMH09a, Hig86b, Hig87c, HR14b, Hig18d, AMH08, AMMR13, Hig83b, HR14a].

Numbers [Hig83a]. Numerical [ALM99, Hig96e, Hig98e, Hig99d].

Numerically [DH00].

One [Hig88a, Hig89c]. One-Norm [Hig88a, Hig89c]. Ontario [Bro07].

OpenMP [BBDH14]. Operators [Hig07c].

Optimization [Hig93d, HC96, HC98]. Order [HR14b]. Orthogonal [Hig88c, Hig03a]. Own [Hig08c]. Oxford [Hig90j].

PA [Hig00c]. Padé [Hig01a, HL11b, HL13].

Pair [CH98b, CH99a, HTV02]. Pairs [GHT10, GHT09b]. Pan [Hig96f]. Parallel [CH01b, DDP94, HP93, HP94a, HP94b, HP94c, Hig95f]. parametrized [GHT11].

Parlett [DH03]. part [MP93]. Partial [Hig95b, Hig97g]. Participants [Hig92b].

Partitioned [HP94c]. Parts [Hig96c, Hig98c]. PC [Hig89d].

[HMT09]. Pereyra [Hig87b]. Performance [BBDH14, Hig00c, THDC09, DH13].

Perturbation [HH92b, Hig92f, Hig93f, Hig93e, Hig94d, Hig94e]. Peter [Hig99a, Hig90e, Hig05b, Hig05c]. Philadelphia [Hig90c, Hig95a]. Pioneering [Hig99c]. Pitman [Hig96e]. Pivoting [HH89, Hig95c, Hig95b, Hig97g, Hig98a, Hig00a, Hig00b]. Point [Hig91d, Hig93a].

Polar [Hig86a, HS90, HP93, Hig94c, HP94b, HMMT04, HMT01, NH12, HMT10, HN16].

Polynomial [Hig96f, HLT08, TH02, HLT07, TH01].

Polynomials [Hig88c, Hig93b, Hig96b, Hig97a, HT01, HMT06, HMMT07b, HMT09, HT03, HMMT07a]. Positive [Hig88b, Hig96c, Hig98c].

Poster [HH96a]. posteriori [Fis17]. Powers [HK95, HL11b, HL13]. pp [Hig99a, Hig05a].

Practical [Hig90g]. Precision [Hig91d, HK93b, HK95, Hig18c, HTDH18].

Precis [CH18]. Preconditioned [Hig96e, BH10]. Preconditioner [HM19].

Preface [HHLP01]. Prepare [Hig96a].

Preserving [HMMT05]. Press [Hig90i, Hig90j, Hig96d, Hig02d]. Princeton [HDG+15]. Prizewinners [Hig03b].

Problem [BHP03b, CH98b, CH97a, CH98d, CH99c, CH00, Hig88d, AHTW01, BHP03a, CH99a, Hig92b, HTV02].

Problems [CH97b, CH98c, CH98e, GHT09a, Hig85b, Hig89e, Hig90c, HH96b, HH98, HH99, Hig06, TH02, HMM+13, CH99b, GHP18, GHT08, HTV02, HTO2, HMTG08, TH01].

Proceedings [HHL01, IP87, MGD93, HWG98, Bro07].

Processing [Hig16b]. Processors [DDP94].

Procrustes [Hig88d]. profiles [DH13].

programming [AHTW01]. Programs [DDHD90]. projections [HS16a].

Properties [Hig03a]. Pseudospectra [BH95, BH96, HT00, Hig07c, TH02, TH01]. Pure [Hig99a].
QR [BHP03b, CH98e, Hig00b]. Quadratic [GHT09a, HK02, GHT08, HK00, HTV02, HMTG08]. quadratic [HK01]. queueing [MP93].

R [Hig97e]. Rank [HM19]. Real [Hig87a, Hig88a, Hig98c, Hig92e, Hig96c, MGD93, Hig98c]. Real-Time [MGD93].

Reducing [DH13]. Refinement [CH18, DHT01, Hig90h, Hig91b, Hig95d, Hig95a, CH17, HTDH18, Hig97b].

Regression [Hig90c]. related [HHT08]. Relation [Hig94c]. relative [DH13]. Released [Hig92d]. Reliability [HHK93]. Research [Hig96c]. resolvent [AHH16]. resolvent-based [AHH16]. Restoring [HSS16]. Review [Hig90i, Hig90j, Hig95e, Hig96d, Hig96f, Hig96e, Hig97e, Hig98b, Hig99a, Hig99b, Hig99e, Hig90c, Hig01b, Hig02d, Hig05a, Hig06, Hig07c]. Reviews [Hig98b]. Revisited [Hig05d, Hig09].

Riccati [GH07]. Right [HH92b].

Right-Hand [HH92b]. Rise [Hig17]. risk [GHP18]. Roadmap [THDC09]. Root [GH06, Hig86d, Hig97h, HMMT05, BHM05, Hig97i]. Roots [Hig87a, HL11a]. Rorres [Hig95e]. roundoff [Fis17]. Row [CH98d, CH00]. Row-Wise [CH98d, CH00].

S [Hig90j, Hig00c]. Same [HS89]. Satisfaction [Hig16a]. Scale [MGD93].

Scaling [AMH10b, AMH12, Hig05d, HMTG08, Hig09, AMH09b]. School [ALM99]. Schott [Hig97e]. Schur [DH03, GH06, HL11b, HL13]. Sciences [Hig93c, Hig94b, Hig98d]. Scientific [Hig96c]. Scientist [Hig94f]. Scientists [Hig91b]. Search [Hig93d]. Searches [HK02, HK01]. Second [Hig01i]. Section [Hig97c]. Selected [CGO07, Hig99b]. Semi [Hig90a]. Semi-definite [Hig90a].

Semidefinite [Hig88b, AHTWO1]. sensitivity [HMTG08]. separately [AMHR15]. Series [Hig93b, Hig96b, Hig97a].

Set [DHHD90]. Seventh [Hig95e].

Sheffield [GH04]. SHMEM [BBDH14].

Short [HL15]. Should [CH96a]. Shrinking [HS16]. SIAG [Hig93b]. SIAG/LA [Hig03b].

SIM [Hig97c, Hig05a, IP87, Hig16a]. Sides [HH92b]. Sign [Hig94c, HMMT04]. simultaneously [AMHR15]. sine [AMHR15, HH05a]. Singular [HK93b, HP93, HP94a]. Snap [Hig18b].

Snippets [Hig16b]. Society [Hig00c, HHL01]. Software [Hig97]. Hig98b]. Solution [CH18, GH07, Hig88e, HP94c, CH17, CDHJ07, HMTG08]. Solutions [Hig89a, GHP18]. Solved [HLT08, HLT07].

Solvers [DH90a, DH93, Hig95f, HTDH18].

Solving [BHP03b, CH97a, CH99c, DHT01, GHT09a, Hig87b, Hig90a, Hig91c, HK93b, HK01, HK02, GHT08].

some [MP93]. Sons [Hig99a]. Sorensen [Hig00c]. Space [CH97a, CH99c]. Sparse [HP94c, CH17]. specified [CHKL01].

Spectra [Hig07c]. Spectral [NH13]. Speed [Hig03b, HTDH18]. Springer

Squares [BHP03b, CH97a, CH97b, CH98c, CH98d, CH98e, CH99c, CH00, BHP03a, CH99b].

Squaring [AMH10b, AMH12, Hig05d, Hig09, AMH09b]. Stability [CH97a, CH97b, CH98c, CH99c, DH90b, DH92a, DH92b, Hig90h, Hig90k, Hig91b, Hig92e, HP94c, Hig95c, Hig95f, Hig96a, Hig97f, Hig97g, Hig98e, Hig99d, Hig02a, NH12, Hig04, HMTG08].

Stable [CH98d, CH00, DH00, Hig97h, Hig97i, NH13].

Stan [Hig05a]. Stand [Hig93b, Hig96b, Hig97a]. state [DW97, IP87]. Stationary [HK93a, HK93b]. Statistical [HS87]. Statistics [Hig97e].
References

Aprahamian:2014:MUF


CODEN SJMAEL. ISSN 0895-
REFERENCES

4798 (print), 1095-7162 (electronic).

**Aprahamian:2016:MIT**


**Aprahamian:2016:MEB**


**Anjos:2001:SPA**


**Ainsworth:1999:GSG**


**Al-Mohy:2009:NSS**

REFERENCES


REFERENCES


REFERENCES


[CDHJ07] Robert M. Corless, Hui Ding, Nicholas J. Higham, and David J. Jeffrey. The solution of \( s \exp(s) = a \) is not always the Lambert \( W \) function of \( a \). In Brown [Bro07], pages 116–121. ISBN 1-59593-743-9 (print), 1-59593-742-0 (CD-ROM). LCCN QA76.5 S98 2007. ACM order number 505070.

REFERENCES


REFERENCES


[CH00] Sheung Hun Cheng and Nicholas J. Higham. Parallel implementation of a block algorithm

**Carson:2017:NAI**


**Carson:2018:ASL**


**Cheng:2001:ALM**


**Dongarra:1990:ASL**


**Dayde:1994:PBI**


**Demmel:1990:IEB**

[DH90a] J. Demmel and N. Higham. Improved error bounds for underdetermined system solvers. LAPACK Working Note 23, Department of Computer Science, University of Tennessee, Knoxville, Knoxville, TN 37996,
REFERENCES

USA, August 1990. URL http://
/www.netlib.org/lapack/lawns/
lawn23.ps; http://www.netlib.
.org/lapack/lawnspdf/lawn23.
pdf. UT-CS-90-113, August
1990.

[DH90b] J. Demmel and N. Higham. Stability of block algorithms with
fast level 3 BLAS. LAPACK Working Note 22, Department of
Computer Science, University of
Tennessee, Knoxville, Knoxville,
TN 37996, USA, July 1990.
URL http://www.netlib.org/
lapack/lawns/lawn22.ps;
http://www.netlib.org/lapack/
lawnspdf/lawn22.pdf. UT-CS-
90-110, July 1990.

lapack/lawns/lawn27.ps;
http://www.netlib.org/lapack/
lawnspdf/lawn27.pdf. UT-CS-
90-119, October 1990.

19, 1992. CODEN IJNADH. ISSN 0272-4979 (print), 1464-
3642 (electronic).

[DH93] James W. Demmel and Nicholas J. Higham. Improved error bounds
4798 (print), 1095-7162 (electronic).

.springerlink.com/openurl.
asp?genre=article&issn=0006-
3835&volume=40&issue=4&spage=
640.

[DH03] Philip I. Davies and Nicholas J. Higham. A Schur–Parlett al-
gorithm for computing ma-
REFERENCES


[DW97] Iain S. Duff and G. Alistair Watson, editors. *The state of the art in numerical analysis*, volume 63
REFERENCES


REFERENCES


[HH98] Desmond J. Higham and Nicholas J. Higham. Structured backward error and condition of generalized eigenvalue problems. *SIAM*


REFERENCES

Hale:2008:CRM

Higham:2008:NPN

Higham:1983:MCN

Higham:1983:UBC

Higham:1985:MCB

Higham:1986:EAC

Higham:1986:MCB

Higham:1986:NMM

Higham:1987:CRS
Nicholas J. Higham. Computing real square roots of a real matrix. *Linear Algebra and Appl.*, 88/89:
REFERENCES


REFERENCES


standard $N^3$ algorithm, and in practice, faster for $N \approx 100$, and examines their numerical stability. See [DDHD90, DH92a].


REFERENCES


REFERENCES


REFERENCES


[Hig95d] Nicholas J. Higham. Iterative refinement for linear systems and LAPACK. Numerical Analysis Report 277, Manchester Centre for Computational Mathematics, Manchester, England,
REFERENCES


REFERENCES


REFERENCES


[Hig98d] Nicholas J. Higham. *Handbook of writing for the mathematical sciences*. Society for Industrial and Applied Mathematics,


REFERENCES

Higham:2002:MCT

Higham:2002:RAN

Higham:2003:OMP

Higham:2003:SPS

Higham:2004:NSB

Higham:2005:BRS

Higham:2005:IPLa


Higham:2008:HOW Nicholas J. Higham. In his own words [interview with Gene


REFERENCES

Higham:2018:SS


Higham:2018:HPA


Higham:2018:UN


Higham:1993:CEA


Higham:1993:FPB


Higham:1995:MPF


Higham:2000:NAQ


Higham:2001:SQM

REFERENCES


REFERENCES


REFERENCES


Higham:1994:PAC

Higham:1994:SPI

Higham:2014:ECN

Higham:2014:HOF

Higham:2016:ELE

Higham:1987:NLA

Higham:1990:FPD

Higham:1998:NWE


issue on linear systems and control.


[NH13] Yuji Nakatsukasa and Nicholas J. Higham. Stable and efficient spectral divide and conquer algorithms for the symmetric eigenvalue decomposition and the SVD. SIAM Journal on Sci-
