Abstract

This bibliography records publications of Yousef Saad.

Title word cross-reference

3D [GHS10]. exp(−τA)b [SSS10]. f(A)b [CAS11]. ILU [LSC03]. ILUS [CS97c]. k [CrFS09]. LU [CS97c, LSS03b, Saa94d].

'02 [AGPS03].

1988 [BTS+89]. 1993 [BCEP94].

20th [Sv00].

5 [WS93].

Abaffy [Saa92h]. ABS [Saa92h]. Abstract [SS85c]. accelerated [LS13b]. Acceleration [KS87, Saa84b, CS99, rFS09, KS92, ZSTC06a]. acceptors [SKBS88]. ADI [MS92, MS93]. advances [GGL94]. algebra [DS91a]. algebraic [GHS10, LSS03a, SS02b, SST04, SSC04]. Algorithm [DS91b, Saa85a, SYEG00, ZS07, ESS86, GS87, GS88b, GS88a, GS89b, Saa74c, Saa80a, Saa82a, Saa86c, SS86c, SL86, SL88, SW93, Saa93a, SW96b, Saa91a]. algorithms [Saa74b]. Algorithms [AGPS03, ASSS11, BDG+10, CS92, CS85a, CS86, CTJ+95, CTSZ07, CZC+09, SS85g, Saa92a, Saa92h, Saa94a, Saa94b, Saa06, VS14, BGSS14, BS94, CS93, CS96, FRSY96, GS94, KS87, Saa90b, Saa94e]. Alternating [JSS87, SS85c]. Analysis [BSS09, BSS10, Saa92b, Saa94b, Saa97, BJR+09, Saa94e, Saa00b]. angle [LSS86, SL86, SL88]. Application [CS12, CTWS94]. Applications [AGPS03, ASSS11, BKS08, BDG+10, Saa06, SrFS08, BJR+09, CSS02, CCS10, C598a, CS85b, Saa83a, Saa90b, Saa90d, SAD+00, SS11, SSC04]. approach [GS90a].
Approximate [BS02b, BS02c, CS94, CS97d, CS98b, Saa03a, BS02a, CrFS09, CS97f].
Approximation [CS09b, GS92a, BSS09, CS97a, CS08, GS90b, GS90a, GS92b, GSS03, ITS07, Saa84a, Saa86b, Saa86e, SS11].
Approximations [CAS11, Saa92b, GHS10].
Architectures [IS85, IS86b, IS86a, SS86b, GS89d, SS89b].
arising [Saa84a, Saa86b, Saa86e, SMSW00].
ARMS [SS02b, SST04].
Arnoldi [BSS10, DS91b, Saa80c, SSW98].
array [SSS85].
Assignment [DS91b, Saa88d].
Associated [DS91b].
Atom [TZA+06].
Augmented [Saa97, CS97b]. automatic [GS94, Saa92a].

Banded [SS85e, SS87]. Based [BS05b, HS06, KS07, SZ99b, SrFS08, JSS07, MOKS12, SW93, SW96b].
Basic [PSWF93, Saa90a]. basis [CTS93, CTS94].
Benchmark [SW88b, SW88a, SW90].
Beresford [Saa83c]. between [BS02c].
BILUM [SZ99a]. BILUTM [SZ99b].
biororthogonalization [Saa80a, Saa82a].
bisection [CrFS09].
Block [LS03, LSS03b, MS93, SS80, SZ99a, SZ99b, Saa03a, ZS08, CS97d, GS87, GS88b, GS88a, GS89b, Saa80b, SZ01, MS92].
Block-ADI [MS93, MS92]. block-partitioned [CS97d].
Boeing [SW89]. Book [Saa83c, Saa95].
bordered [CS85b]. Bounds [Saa94b, Saa94e]. brownian [ACSS12].
Bulk [TZA+06].
calculation [ZSTC06b]. Calculations [ØBSC03, CS10, AJT+07, CTS93, CTS94, JKSC99, SSC+96, ZSTC06a].
Carolina [BCEP94]. Centenary [BCEP94]. century [Sy00]. CFD [CSW00, SST04]. Chain [PSS92, Saa91c]. chains [BGB+10, RGSB08]. charge [BSTC05].
charging [RGSB08]. Chebyshev [ESS86, Saa84b, ZSTC06a, ZSTC06b, ZS07, ZCS14].
Chebyshev-filtered [ZSTC06a, ZSTC06b, ZCS14]. classes [rFS09].
clusters [CTJ+95, JTD+94]. CM [PSWF93, WS93]. CM-5 [WS93, PSWF93].
Coarse [MS07a]. Coarse-Grid [MS07a].
Coarsening [MS07b].
codes [GS83, JKSC99]. Communication [SS85a, Saa85a, SS85d, Saa86c, SS86b, SM95, Saa89a, SS89b].
Community [CS12].
Compensation [MOKS12]. Complement [LS05b, Saa99a, GHS10, Saa07].
Complements [BS05a]. Complex [PS85, PS87, Saa83a, Saa84a, Saa86b, Saa86e, Saa87c].
complexities [GS89d].
Complexity [ISS84, ISS86, Saa85a, Saa86c].
Component [JSS07]. Component-based [JSS07]. Computation [BS05a, BK508, Saa74a, LLCS02, dlGGS+05].
Computational [SM95, Fit86].
Computations [BTS+89, FWPS92, PSWF93, SW88a, Saa94a, SW88b, SW90, Saa90a].
Computers [FWPS92, SS02a, AS88, AS89].
Computing [BSTC05, CAS11, Saa92e, Saa95, SSS10, TS11, ACCS12, PS07, Saa80c, TS12].
Concurrent [Saa95]. condition [Saa84a, Saa86b, Saa86e]. Conference [BCEP94, Fit86]. Confined [ØBSC03].
Conjugate [SS85g, SS85f, SS86a, SYEG00, Saa06, Saa85c]. Conquer [LS13a].
consistent [ZSTC06a, ZSTC06b].
Constructed [BS05b]. construction [CrFS09]. continuation [CS85b]. control [DS91a, Saa90d]. Convergence [BS94, Saa80b]. convergent [BS89]. convex [BS09]. Cornelius [BCEP94].
correction [PS07].
coupled [KS92].
coupling [dlGGS+05].
Crout [LSC03, LS05a]. cubic [SKBS88]. cyclic [GS87, GS88b, GS88a, SS89b].
dans [Saa74b]. Data [SS85a, SS85d, SS86b, SS89a, SS89b, Saa94a, SM95, CrFS09].
Davidson [SS98, SS98b, ZS07].
December [BCEP94]. **Decomposition** [CS92, HS06, Saa94a, TS11, CS93, CS96, PS07, Saa92a, SSZ98]. **decoupling** [KS87].

**Definite** [SS80, VS11]. **Deflated** [CS97b, SYEG00]. **deflation** [Saa88d].

**Dense** [SS80, VSS14]. **Deflated** [CS97b, SYEG00]. **deflation** [Saa88d].

**Dense-Linear-System** [ISS86]. **densities** [BSTC05]. **Density** [BKS08, BSK+03, RGSB08, SS91, diGG0+05].

**Density-functional** [RGSB08]. **dependent** [BSK+03, RGSB08, diGG0+05].

**Design** [CWS05].

**Detection** [CS12]. **Diagonal** [SZ99c, Saa05, TS11, BKS07, TS12].

**Diagonalization** [JKSC99, ZCS14]. **diatomic** [CTWS94]. **Dielectric** [ ¨OBSC03].

**Diierence** [CTS93, CTS94, CTWS94, JTD+94, SSS85].

**Dierential** [CSS85, CSS87, SS81].

**Dimension** [CS09a, KCS09, KCS11, Saa83b].

**Dimensional** [CrFS09, LSS86].

**Dimensionality** [KS07, NBS10, SrFS08].

**Dirac** [SS11].

**Direct** [SS85e, SS87, SW96b].

**Direction** [SS85c, JSS87].

**Disjoint** [Saa83d].

**Distributed** [MS94, Saa92e, Saa94a, SM95, SS98a, SSS99a, SSS99c, Saa90g].

**Distributions** [CS14].

**Divide** [LS13a].

**Domain** [CS92, Saa94a, SSZ98, SZ99b, TS11, CS93, CS96, PS07, Saa92a].

**Domain-Based** [SZ99b].

**Domain-Decomposition-Type** [TS11].

**Dominance** [Saa05].

**d’origine** [Saa74a].

**DQGMRES** [SW93, SW96b].

**Dual** [Saa92d, Saa94d].

**Dynamic** [SS98b].

**Eigenelements** [Saa80c].

**Eigenfaces** [SrFS80].

**Eigenproblems** [ZS07, KCS09, KCS11].

**Eigensolutions** [Saa85b].

**Eigenvalue** [BSS10, rFS12, IS85, IS86b, PS89, Saa83c, Saa84b, Saa11b, SSF93, Saa82b, Saa83e, Saa89b, Saa92g, SSC+96, SSF95, SS98b, WSS98, ZS08].

**Eigenvalues** [BS05a, Saa74a].

**Electronic** [JKSC99, SCS10, AJT+07, CTS93, CTS94, CKV+03, CTSZ07, CZC+09, SSC+96].

**element** [KSS03, KSSG04].

**Elimination** [Saa85a, Saa86a, Saa96, Saa86c, Saa86d, Saa92c].

**Elliptic** [SS85, CSS85, GS87, GS88b, SS88a, GS89b, GS89d, KS92, SSS85].

**Enhanced** [SS99b, ZS01].

**Environments** [Saa87b, Saa92e, CS99, Saa91a].

**equation** [KSS03, KSSG04, LSS86, SL86, SL88, ZS14].

**Equations** [CSS85, GS87, BS87, BS90, BS91, CTS93, SS87, SSSS85, GS88a, GS89b, GS89c, GS89a, GS90a, GS90b, GS90c, GS90d, GS91b, GS92b, GS92c, PS07, SS81, SS85, Saa90g].

**Eric** [Saa95].

**Error** [Saa94b, Saa94e].

**estimator** [BKS07].

**Evolution** [TZ+06, CTSZ07].

**Exact** [Saa03a], **excited** [GGR+10, SKBS88].

**Experimental** [CS97e].

**Exploration** [Fit86].

**Exponential** [Saa92b, Ssa98a].

**Extended** [SS85c].

**Extraction** [CS12].

**Extreme** [rFS12].

**F** [Saa95].

**Face** [KS05a], **faces** [KS05a].

**Factored** [BS02b, BS02c, BS02a].

**Factorization** [HS06, LS05a, Saa92d, Saa94d].

**Factorizations** [MOKS12, CSS10].

**Fast** [CrFS09, VS14, SS87, SS88b, SS88a, GS89b, GS89d].

**February** [GGL94].

**feedback** [Saa88d].

**Fermi** [Ss11].

**few** [Saa94b, Saa94e].

**field** [ZSTCO6a, ZSTCO6b].

**Filtered** [BKS08, rFS12, Saa06, ZSTCO6a, ZSTCO6b, ZCS14].

**Finding** [Saa03a], **finite** [CTS93, CTS94, CTWS94, JTD+94, KSS03, KSSG04].

**finite-dierence** [CTWS94].

**finite-dierence-pseudopotential** [JTD+94].

**first** [AJT+07].

**first-principles** [AJT+07].

**flexible** [Saa91a, Saa93a].

**flows**
forces [CJWS96]. format [CS97c]. free [ZCS14]. function [SS11]. Functional [BKS08, BS, RGSB08, SS11, dIGGS+05]. Further [BSS10, Saa00b].

Gaussian [Saa86d, CS14, Saa85a, Saa86c, Saa86a].

General [CS92, CS94, LSC03, Saa94b, Saa96, SZ99a, SZ99b, SS99a, SS02a, CS93, SCS96, Saa92a, Saa92c, Saa94c, Saa94e, SSZ98, SZ99c, Z01, SS02b, Saa07].

Gaussian [Saa86d, Saa86a, Saa91b, Saa93b]. Gradient [SS85g, SS85f, SYEG00, Saa85c]. Gradient-like [SS85g]. Gram [Saa86e]. Graph [HS06, SrFS08, VSS14, CrFS09, GS94]. Graph-Based [SrFS08]. Greedy [MS07b, MS07a].

Hand [Saa87d]. Harnessing [BGB+10]. Harwell [SW89]. Harwell-Boeing [SW89]. held [GGL94]. Helmholtz [KSS03, KSSG04, OKS10]. Hermitian [Saa74a]. Heuristic [GS94]. Hierarchical [HS06]. High [Csw00, CrFS09].

High-order [Csw00]. Higher [CTWS94, SKBS88, JTD+94].

Higher-order [CTWS94, JTD+94]. Highly [Saa94c]. Houston [Fit86]. Hybrid [BS87, BS90, ESS86, GHS10].

hydrodynamic [ACSS12]. Hypercube [CS85a, CSS85, CSS86, CSS87]. Hypercubes [SS85a, SS85d, SS85b, Saa86a, SSS88, Ssa86d, Ssa89a].

ILU [Csw00, CS97e, HS06, LS05a, MS94, Saa92d, Saa92c, Saa96, SZ99a, SZ99c, SZ01, Saa03a, Saa05]. ILUM [Saa92c, Saa96]. ILUs [BS02c, BS05b]. ILUT [Saa92d, Saa94d, SZ99b]. IMA [GGL94]. Impact [IS85, IS86b, IS86a].

Implementation [BSK+03].

Implementations [SS85f, Saa91b, Saa93b]. Implicitly [SSW98]. Incomplete [LS06, MOKS12, Ccs10, CS97c, Saa92d, SW93, Saa94d, SW96b]. Incremental [CS10]. indefinite [CS97e, Saa83d, Saa84c, Saa88a, Saa88b, Saa88c]. Indexing [SrFS08, VS14].

Inexact [WSS98]. Initio [OBSC03, JTD+94]. inner [Saa91a, Saa93a]. inner-outer [Saa91a, Saa93a]. Institute [BTS+89]. interactions [ACSS12]. Interior [FSS12]. International [BCEP94]. intervals [Saa83d]. Invariant [BKS08, PS07]. Inverse [BS02b, BS05b, CS94, CS98b, TS11, BS02a, CS97d, CS97f, TS12]. Inverse-Based [BS05b]. Inverses [BS02c]. Invert [PS87, PS85]. Iron [TZ+06]. irregularly [FRSY96]. issue [ASSS11, BDG+10]. iteration [ZSTC06, ZCS14].

J. [Saa92h]. Jacobi [SS98b]. January [Fit86].

Kernels [SM95]. kit [Saa00a]. Kohn [SCS12, ZCS14]. Krylov [Saa89a, Saa90b, ACSS12, BSS09, BS87, BS89, BS90, CS99, CCY98, CS97b, CS14, ESS86, GS92b, GS92a, Saa81, Saa84c, Saa90d, Saa91b, Saa92b, Saa92e, Saa92f, Saa93b, Saa97, Saa98, Saa11a, ZS08].

Laguerre [SS10]. Lanczos [BCEP94, BGB+10, BSTC05, BKS08, CrFS09, Saa09a, FSS12, RGSB08, Saa80a, Saa80b, Saa82a, Saa87d, Saa94b, Saa94e]. Lanczos-Type [Saa94b, Saa94e]. Large [BKS08, BCS+89, DS91b, IS86a, LS06].
ÖBSC03, PS89, Saa82b, Saa85b, Saa11b, SSF93, ZS07, DS91a, Saa74a, Saa80a, Saa80c, Saa81, Saa82a, Saa83b, Saa83e, Saa89b, Saa90c, Saa92g, SSC96, SAD90, SSF95, WSS98, ZS08]. Latent [SrFS08, VS14]. Least [CAS11, LS06, Saa83a, Saa87c, Saa84a, Saa86b, Saa86e]. Least-Squares [LS06]. level [SSZ98, SZ99c, SZ01]. Library [SW94, SW95, SW96a, SKL97]. Like [DS91b, SS85g]. Linear [ITS07, ISS84, ISS86, MS92, MS93, MS94, SS85g, SS85e, SS87, SS98a, SZ99a, SS99a, SS99c, SS02a, AS88, DS91a, ESS86, GS83, GSS03, JSS07, LS13b, OKS10, LSS98, Saa81, Saa83d, Saa84c, SSS985, SSS86, SSS86, SSS87, SSS88, SSS89, SSS90, SS91a, ESS86, GS83, GSS03, JSS07, LS13b, OKS10, Saa81, Saa83d, Saa84c, SSS85, SSS86c, SSS87c, Saa88d, Saa88a, Saa88b, Saa88e, SSZ98, SZ99c, SS99b, SSS09, SS01, Saa01, Saa02b, Saa03b, SMSW00]. Liquid [LLCS02]. localized [CJWS96]. Low [CS09b, LS13a, CS08]. Low-Rank [LS13a]. LR [Saa74b]. LU [CCS10]. Lyapunov [Saa90c].

Magnetism [TZA06]. March [GGL94]. Markov [PSS92, Saa91c]. Massively [FWPS92]. Material [SOS90]. Materials [SCS10]. mathematical [Fit86, Fit86]. Matrices [CS92, CS94, LSC03, LSC13a, ÖBSC03, PS87, Saa85b, SW89, Saa96, SSZ99b, BS09, CS93, CS96, CS97d, CS97e, LS05a, PS85, Saa74a, Saa80c, Saa84a, Saa86b, Saa86e, Saa92c, Saa94c]. Matrix [AGPS03, ASS11, AEKS90, BDG90, FWPS92, IS86a, PSWF93, SW88a, Saa92b, Saa94a, SW94, TS11, VS814, BJ90, BK07, BGSS14, CS98a, Saa83a, Saa83b, SW88b, Saa90a, SW95, SW96a, SAD90, TS12, dGGS95]. Memory [Saa87b, SM95, Saa87a]. Message [Saa87b, Saa87a, WS93]. Method [SS80, Saa87d, CTS93, CTS94, CTWS94, JTD94, KSS03, KSSG04, LSS86, Saa80c, Saa85c, SC12, TS12, ZS08, ZCS14]. Methods [BTS98, CSSY98, CS14, DS91b, GS92a, PSS92, SSS81, SSS85c, SSS85e, SSS85f, SSS96a, Saa87b, SS87, Saa91b, Saa92e, Saa93b, Saa97, SCS10, Saa11a, Saa11b, SSS98, SSS98+00, TS11, ACSS12, BSS09, BS87, BS89, BS90, BS91, CSS02, CS85b, rFS09, Fit86, GS90b, GS92b, GGL94, JSS87, JSS07, KS92, KC89, KS09, KS11, Saa80a, Saa80b, Saa81, Saa82a, Saa82b, Saa83d, Saa83b, Saa83e, Saa84c, Saa87a, Saa88d, Saa89a, Saa90b, Saa90d, Saa91c, Saa92g, Saa92f, Saa98, Saa01, Saa03b, SSS98b]. minimal [SS86c, SW93, SW96b]. minimum [Saa00b]. Minneapolis [BTS98, GGL94]. Minnesota [BTS98, GGL94]. MIQR [LS06]. Modeling [PSS92, Fit86]. Models [Saa91c]. modern [CSS02, SSC04]. Modification [MOKS12]. Modified [CS99, Saa84a, Saa86b]. module [SS84, SW95, SW96a]. Molecular [CJWS96, BGB09, JTD94]. molecular-dynamics [JTD94]. molecules [CTWS94]. moment [Saa84a, Saa86b]. Multi [Saa96, Saa92c, SSZ98, SZ99c, SZ01]. Multi-Elimination [Saa96, Saa92c]. multi-level [SSZ98, SZ99c, SZ01]. multicore [SS99b]. Multielimination [SZ99a]. Multigrid [CS85a, CS86]. Multilevel [BS05b, LS06, SS99a, SS99b, Saa05, SrFS08, LS03a, SSS02b, SST04, SSC04]. Multiprocessor [CS85a, CS85b, CS86, ISS84, ISS86, CSS87]. Multiprocessors [SS85c, Saa85a, JSS87, SS81, Saa86c]. multisecant [rFS09]. Multistage [HS06]. Multivariate [CS14].

N [Saa83c]. nanocrystals [CTSZ07, CZC09]. Neighborhood [KS07, KS05b]. News [Saa95]. Newton [BS94, WSS98]. NN [CrFS09]. Non [SS99c]. Non-standard [SS99c]. nonlinear [BS87, BS89, BS90, BS91, BS94, rFS09, KS92].
Nonsymmetric
[LSS03b, MS93, MS07b, Saa84b, SS85g, Saa85b, ESS86, Saa83a, Saa84c, SS86c, Saa87c, Saa88a, Saa88b, Saa88c, Saa89b].

normal [BSS09]. North [BCEP94]. null [ITS07]. null-space [ITS07]. number [Saa86e].

Oblique [Saa80a, Saa82a]. Observer [DS91b]. October [BTS+89]. ODE [GS83].

Operator [Saa92b, CS98a]. OPRA [KS05a]. OPRA-faces [KS05a]. Optimal [CS99b, CS08]. Optimization [NBS10, NBS12, BSS09, KCS09, KCS11].

order [CSW00, CTWS94, JTD+94]. origin [Saa74c]. Orthogonal [CS99b, KOS05b, KOS07, CS96, Saa83d].

orthogonalization [SW93, SW96b]. Other [Saa80a, Saa82a]. outer [Saa91a, Saa93a]. Overview [CS92, CS93, CS96, LS05b].

P SPARSLIB
[SW94, SW95, SW96a, SKL+97]. Package [SW88a, SS02a, SW88b, SW90]. papers [GGL94]. Parabolic [GS92a, GS89c, GS89a, GS90b, GS90a, GS92b].

Parallel [BDG+10, BGS05, BSK+03, CS02, CS97f, FWPS92, FRYS96, GS90a, HS06, IS85, IS86b, IS86a, SS85e, SS85f, SS86b, SS86a, Saa87b, SS87, SW94, SS99c, Saa01, SS02a, SÖS+00, ZSTC06a, AS88, AS89, CS99, GS87, GS88b, GS88a, GS89b, GS89c, GS89a, GS89d, GHS10, LS03a, LLC02, SS80, Saa87a, SS89b, Saa92c, Saa94c, SW95, SW96a, SKL+97, SAA99b, SSS03, ASS11].

Parlett [Saa83c]. pARMS [LSS03a, Saa02a].

Partial
[CSS84, DS91b, Saa85b, CSS87, Saa88d]. partially [BSTC05]. Particle [LLCS02]. partitioned [CS97d]. Partitioning [VSS14, GS94, LLCS02, Saa74a]. Passing [Saa87b, Saa87a, WS93]. Performance [WS93]. periodic [AJT+07]. physical [CSS02, SCC04]. Pivoting [BS02b, BS02a, LS05a]. plane [JKSC99]. Saa83a, Saa84a, Saa86b, Saa86e, Saa87c].

plane-wave [JKSC99]. PMAA [AGPS03]. PMAA’10 [ASS11]. Point [LS03, LS03b]. pole [Saa88d]. Polynomial [BKOS08, CAS11, GS90b, Saa85c].

polynomials [Saa83d, Saa83a, Saa87c, SKL+97]. portable [SKL+97]. Positive [SS80, VSS14]. potential [CTS03, CT594]. Practical [BTS+89, Saa84c, Saa85c, BTS+89].

Preconditioned [CCSY98, CS14, Saa85f, Saa86a, Saa91b, Saa93b, Saa98, LS13b, Saa91a, Saa92f, Saa93a]. Preconditioner [BS02b, LS05b, LS06, Saa96, SZZ99a, SZZ99b, BS02a, CS97c, Saa92c]. Preconditioners [BS05b, CS94, CS98b, LS13a, LS03, LS03b, MS92, MS93, MS94, CS97a, CW900, CS97e, SZZ97, GSS03, Saa94c, SZZ99c, Saa07].

Preconditioning [CS98a, KSS03, KSSG04, OKS10, Saa88a, Saa88b, Saa88c, SAD+00, Saa03a, SMS00, SSSF93, VSS14, SZZ99b, SZZ01, SSSF95, WSS98].

preconditionings [Saa85c]. Predicting [SOS+00, CTJ+95]. Preserving [CCSY04, KS07, SZZ05b]. primitives [WS93]. principles [AJT+07]. probing [TS12].

Problem [NBS10, NBS12, CKV+03, SCS12, Saa83c].

Problems [BSS10, DS91b, rFS12, GGL94, IS85, LS06, LS03, LS03b, MS07b, PS89, Saa84b, Saa11b, SSSF93, CW900, DS91a, FRYS96, SSS6b, Saa82c, Saa83a, Saa83b, Saa83e, Saa98b, Saa90d, Saa92c, SZZ99c, SZZ99a].

SAD+96. SAD+00, SZZ04, SSSF95, WSS98, ZS08].


processors [SS885]. Projection [BS91, KS07, Saa82b, Saa83c, Saa88d, Saa91c, Saa92b, ITS07, Saa80a, Saa82a].
Projection-Based [KS07]. Projections [KS07, KS05b]. Properties [SS85b, SS88, SOS86, CTJ95, CTSZ07, CZC90].

pseudo [CTS93, CTS94], pseudo-potential [CTWS94, JTD94], pseudopotentials [CKV03]. PSPARSLIB [SS98a]. purpose [Saa92a].

QR [LS06, Saa74b]. quantum [CJWS96]. Quasi [SW93, SW96b]. Quasi-minimal [SW93, SW96b].

Raleigh [BCEP94]. Rank [CS90b, LS13a, CS88]. rates [Saa80b].

Ratio [NBS10, NBS12]. Rational [GSS85, SS90a]. Real [PS87, CKV03]. recognition [KS05a]. recursive [CrFS09, LSS03a, SS02b, SST04, SSC04].

Reduction [CS90a, KS07, NBS10, SrFS08, GS87, GS88b, GS88a, GS89b, KCS09, KCS11].

Relations [Sao05]. Reorderings [Saa05]. reorthogonalized [BSTC05]. reservoir [Fit66]. Residual [Saa06, SS86c, SW93, SW96b, Saa00b].

Residual-type [Saa06]. Restarted [SSW98]. Restarting [SSW98, SS98b].

Restricted [LS05b]. Review [Saa83c, Saa92b]. Reviews [Saa95]. Right [Saa87d]. Right-Hand [Saa87d]. Ring [SS84, SS86e]. Robust [SSF93, SSF95, SZ99c].

Saddle [LS03, LSS03b]. Sampling [CS14].

Scale [BTS89]. Schur [Saa07, BS05a, GHS10, LS05b, SS99a, ZS08].

SchurRAS [LS05b]. Scientific [Saa95]. seismic [Fit66]. Selection [MS07a]. Self [ZSTC06b, ZSTC06a]. Self-consistent-field [ZSTC06b, ZSTC06a]. Semantic [SrFS08, VS14]. semiconductor [KS87]. semiconductors [KS88]. Several [Saa87d]. Sham [SCS12, ZCS14]. Shared [Saa87b, Saa87a]. Shift [PS87, PS85]. Shifts [Saa74c]. Si [JTD94]. Sides [Saa87d].

simulation [KS87]. simulations [ACSS12, JTD94]. Singular [CS09a].

skyline [CS97c]. Slicing [CS12]. Smallest [BS05a]. SNAP [ITS07]. Software [AKES90, Saa92a]. solid [LLCS02].

solid-liquid [LLCS02]. Solution [DS91a, GS92a, ISS84, IS85, ISS86, IS86b, SSC96, SS98a, SS99c, GS87, GS88b, GS88a, GS89b, GS90c, GS90b, GS90a, GS92b, GS83, ITS07, KSS03, KSSG04, SS81, Saa83d, Saa83b, Saa89b, Saa90c, Saa91c, SW95, SW96a, Sv00, SST04]. solver [LS03a, SS92b, SSC04].

Solvers [SM95, GS89d, GHS10, LS06, MS92, MS93, MS94, PS93, PS89, SS80, Saa82b, Saa83a, Saa83e, SW88b, SW90, Saa90a, Saa92c, Saa94c, SW95, SM95, SS98a, Saa96, SS99a, SZ99a, SZ99b, SS99a, SS90c, SS92a, Saa88, AS89, AS93, CS96, CS97c, GSS03, JSS07, LS05a, Saa82b, Saa83a, Saa83e, SW88b, SW90, Saa90a, Saa92c, Saa94c, SW95, SW96a, SKL97, SSZ98, SZ99c, SAD00, SZ01, Saa01, SS02b, Saa03b, Saa07, SSF95, ZCS14].

Some [GS89d, WS89, Saa92b, Saa84c, Saa86e]. SOR [MS94]. space [CKV03, ITS07]. SPARK [SW90]. Sparse [AKES90, CS92, CS94, CS98b, FWPS92, GHS10, GGL94, IS86a, LSC03, LS06, MS92, MS93, MS94, PSWF93, PS89, SS88a, SW89, Saa94a, SW94, SM95, Saa96, SS98a, SZ99a, SZ99b, SS99a, SS90c, SS92a, Saa88, AS89, AS93, CS96, CS97c, GSS03, JSS07, LS05a, Saa82b, Saa83a, Saa83e, SW88b, SW90, Saa90a, Saa92c, Saa94c, SW95, SW96a, SKL97, SSZ98, SZ99c, SAD00, SZ01, Saa01, SS02b, Saa03b, Saa07, SSF95, ZCS14].

Sparse-Sparse [CS98b]. SPARSKIT [Saa90a]. Special [ASSS11, BJR90, BDG10]. spectra [CJWS96]. Spectral [BS05a]. Spectra [DS91b, CS12]. Spedicato [Saa92a].

Squares [ACSS11, LS06, Saa83a, Saa84a, Saa86b, Saa86e, Saa87c]. standard [SS99c].

Standards [AEKS90]. state [Saa88d].
REFERENCES

states [BGB+10, SKBS88]. Statistics [SW89]. Stiefel [SS80]. Strategies [MS07b, MOKS12, PS87, SS99c, LLCS02, PS85, SZ01, SMSW00]. Strategy [MS07a]. structural [CTJ+95]. Structure [SCS10, AJT+07, CTS93, CTS94, CKV+03, JKSC99, SSC+96]. Structured [GGL94, FRSY96]. Structures [Saa94a, SM95, Saa03a]. study [CS97e]. Subgraph [CS12]. Subspace [CCSY98, CS14, Saa91b, Saa92b, Saa92e, Saa93b, Saa97, Saa11a, ACSS12, BSS09, BS89, CS97b, ESS86, Saa81, Saa84c, Saa89a, Saa90b, Saa90d, Saa92f, Saa98, ZSTC06a, ZSTC06b, ZCS14]. Subspaces [BKS08, PS07]. sum [CS97a]. Supercomputer [BTS+89, Saa91b, Saa93b]. Supercomputers [PS89, Saa89a]. SVD [CS08, CS09b]. Sylvester [DS91b]. Sylvester-Like [LS13a, LSS03b, Saa83d, Saa84c, SS86c, Saa87c, Saa88a, Saa88b, Saa88c, SSZ98, SZ99c, SS99b, Saa90b, SS11, dGGS+05]. Thick [SSW98]. three [LSS86]. three-dimensional [LSS86]. Threshold [MOKS12, Saa92d, Saa94d, SZ99c]. Threshold-based [MOKS12]. time [BSK+03, RGSB08, dGGS+05]. time-dependent [BSK+03, RGSB08, dGGS+05]. tire [SMSW00]. tool [Saa90a]. Tools [SOS+00, Saa92a]. Topological [Saa85b, SS88]. Trace [KCS90, KCS11, NBS10, NBS12]. translations [Saa74b]. trends [Saa92f]. triangular [AS88, AS89]. Turbo [RGSB08]. Two [rFS09, Saa83d]. Type [Saa94b, TS11, Saa94e, SSZ98, Saa06]. Unstructured [MS94]. unsymmetric [Saa80a, Saa80c, Saa81, Saa82a]. Updating [VS14]. use [Saa84c, Saa85c, Saa87c]. Using [BKS08, CKV+03, SS98a, SSC04, VSS14, BS05a, JTD+94, KS05a, Saa83d, ZSTC06b].

Values [VSS14]. Variations [Saa80c, SST04]. Vectors [CS97a]. Velde [Saa95]. Version [LS05b, SYEG00, LSS03a]. Versions [LSC03, SZ99a, LS05a]. versus [CS09a]. via [BSS09, CrFS09, CAS11, CS98b, ZSTC06a]. Vibrational [CJS96, CZC+09]. volume [BJR+09].


References

[ACSS12] Tadashi Ando, Edmond Chow, Yousef Saad, and Jeffrey Skolnick. Krylov subspace methods


[Costas Bekas, Pasqua D’Ambra, Ananth Grama, Yousef Saad,]

**Baroni:2010:HME**


**Bekas:2014:PMA**


**Beckermann:2008:SVM**


**Bekas:2007:EDM**


**Bekas:2008:CLI**


**Brown:1987:HKM**


**Brown:1989:GCN**

REFERENCES


REFERENCES


Burdick:2003:PIT


Bellalij:2008:ASK


Bellalij:2010:FAA


Bekas:2005:CCD


Boley:1989:PIM


Chen:2011:CLS


[ChJWS96] Chelikowsky:1996:MDQ


[CrFS09] Chen:2009:FAG


[Chan:1985:IMS]


[Chan:1986:MAH]


[Chan:1985:IMS]
REFERENCES


Cai:1992:ODD

Cai:1993:ODD

Chow:1994:AIP

Cai:1996:ODD

Castillo:1997:TSA

Chapman:1997:DAK

Chow:1997:IPS

Chow:1997:AIT
REFERENCES

Chow:1997:ESI

Chow:1997:PAI

Castillo:1998:PME

Chow:1998:AIP

Calvez:1999:MKA

Chen:2008:TSO

Chen:2009:LVV
REFERENCES


Chelikowsky:1993:FDP


Chelikowsky:1994:FDP


Chelikowsky:2009:AEV


delaGrandmaison:2005:ECC

REFERENCES

CPHCBZ. ISSN 0010-4655 (print), 1879-2944 (electronic).

[Bonnaud:1991:SLL]

[Bonnaud:1991:AML]

[Elman:1986:HCK]

[Fitting:1986:MCM]

[Ferreira:1996:PAI]

[Fitting:1992:SMC]

REFERENCES


Giraud:2010:SAS


Gear:1983:ISL


Gallopoulos:1987:PBC


Gallopoulos:1988:PBCa


Gallopoulos:1988:PBCb


Gallopoulos:1989:PSPa

University of Illinois at Urbana-Champaign, Center for Supercomputing Research and Development, Urbana, IL 61801, USA, June 1989. 22 pp.

Gallopoulos:1989:SFE


Gallopoulos:1990:PSP


Gallopoulos:1990:ESPa


Goehring:1994:HAA


Guillaume:2003:RAP


Henon:2006:PMI

[HS06] Pascal Hénon and Yousef Saad. A parallel multistage ILU factorization based on a hierarchical graph decomposition. *SIAM
REFERENCES


**Ipsen:1985:IPA**

**Ipsen:1986:IPAa**

**Ipsen:1984:CDL**

**Ipsen:1986:IPAb**

**Illec:2007:LSS**

**Jay:1999:ESC**
REFERENCES

Johnsson:1987:ADM


Jones:2007:CBI


Jing:1994:IMD


Kokiopoulou:2005:FRU


Kokiopoulou:2011:TOE


Kerkhoven:1987:ATD


Kerkhoven:1992:AMC


Kokiopoulou:2009:TOE

REFERENCES


REFERENCES

Li:2005:CVI

Li:2005:SRV

Li:2006:MMI

Li:2013:DCL

Li:2013:GAP

Li:2003:CV

Lee:1986:EMS

Li:2003:PPV
Zhongze Li, Yousef Saad, and Masha Sosonkina. pARMS: a parallel version of the algebraic recursive multilevel solver. *Numerical Linear Algebra with

Little:2003:BPSb

MacLachlan:2012:MCS

Ma:1992:BAP

Ma:1993:BAP

Ma:1994:DIS

MacLachlan:2007:GSC

MacLachlan:2007:GCS

[MS93]
[MS94]
[MS97a]
[MS97b]
REFERENCES

SJOCE3. ISSN 1064-8275 (print), 1095-7197 (electronic).


[Philippe:2007:CED] Bernard Philippe and Yousef Saad. On correction equations...


[Haw ren Fang and Yousef Saad. Two classes of multisecant methods for nonlinear acceleration. *Numerical Linear Algebra with Applications*, 16(3):197–221, ???? 2009. CODEN NLAAEM. ISSN 1070-5325 (print), 1099-1506 (electronic).]


[Y. Saad. *Computation of eigenvalues of large Hermitian matrices by partitioning techniques*. Doctorate de 3ème cycle, INPG - University of Grenoble, Grenoble, France, 1974.]


[Y. Saad. The Lanczos biorthogonalization algorithm and other oblique projection methods for solving large unsymmetric systems. Report 1036, Department of Computer Science, University of North Carolina at Chapel Hill, 1980. CODEN JCCJAM. ISSN 0945-3030 (print), 1091-1111 (electronic).]
REFERENCES

of Illinois at Urbana-Champaign, Urbana, IL, USA, 1980. 44 pp.


Yale University, New Haven, CT, USA, 1986.


REFERENCES


[Saad90c] Youcef Saad. Numerical solution of large Lyapunov equations. In M. A. Kaashoek,
REFERENCES


Saad:1992:IDT


Saad:1992:KSM


Saad:1992:NTP


Saad:1992:NML


Saad:1992:RAP


Saad:1993:FIO


Saad:1993:SIP


Saad:1994:DSA


Saad:1994:TEBa

Saad:1994:HPP

Saad:1994:IDT

Saad:1994:TEBb

Saad:1995:BNR

Saad:1996:IME

Saad:1997:AAK

Saad:1998:PKS

Saad:2000:E
Saad:2000:FAM

Saad:2001:PIM

Saad:2003:FEA

Saad:2003:IMS

Saad:2005:MIR

Saad:2006:FCR

Saad:2007:SCP

Saad:2011:KSM
REFERENCES


REFERENCES


Youcef Saad and Maria Sosonkina. Distributed Schur complement techniques for general sparse linear systems. SIAM Journal on Scientific Computing,
Saad:1999:EPM

Saad:1999:NSP

Saad:2002:PPS

Saad:2002:AAR

Sidje:2011:RAF

Saad:1996:SLE
Sosonkina:2004:UPA


Stathopoulos:1993:RPL


Stathopoulos:1995:RPL


Saad:1985:SED


Sheehan:2010:CET


Saad:2004:VAR


Stathopoulos:1998:DTR

Special issue on iterative methods (Copper Mountain, CO, 1996).


**References**


Zhou:2006:SCF