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]. tr(f(A)) [CS18, UCS17].

'02 [AGPS03].


20th [Sv00, BW01].

5 [WS93].

Abaffy [Saa92h]. ABS [Saa92h]. Abstract [SS85c]. accelerated [LS13b]. accelerating [KKPS18]. Acceleration [BRZS18, KS87, Saa84b, BCRZS22, CS99, rFS09, HTZ+24, KS92, ZSTC06a]. acceptors [SKBS88]. acoustic [EGMS20]. Adapted [FSUS20]. ADI [MS92, MS93]. advances [GGL94]. algebra [DS91a, RRV93]. Algebraic [LS17, GHS10, LSS03a, SS02b, Saa94d]. Algebraic [LS17, GHS10, LSS03a, SS02b, Saa94d]. Algebraic [LS17, GHS10, LSS03a, SS02b, Saa94d]. Algorithm [DS91b, LXV16, Saa85a, SYEG00, XAKS23, ZS07, ESS86, GS87, Saa92b, Saa94b, Saa94c]. Algebraic [LS17, GHS10, LSS03a, SS02b, Saa94d]. Algortithms [Saa74b]. Algorithms [AGPS03, ASSS11, BDG+10, CS92, CS85a, CS86, CTJ+95, CTSZ07, CZC+09, LXES19, Saa92b, Saa94b, Saa94c]. Alternating [JSS87, SS85c]. amplitude [WGSC18]. analogue [CJ04]. Analysis [BS09, BSS10, BW01, Saa92b, Saa94b].
Saa97, Saa16, BJR\textsuperscript{+}09, Saa94e, Saa00b].

analytics [KMB\textsuperscript{+}18]. **Anderson**

[BRZS18, BCRZS22]. **Anderson-type**

[BCRZS22]. **angle** [LSS86, SL86, SL88].

Application [CS12, CTWS94].

Applications [AGPS03, ASSS11, BKS08, BDG\textsuperscript{+}10, FSUS20, Saa06, SrFS08, BJR\textsuperscript{+}09, CSS02, CS98a, CS85b, Saa83a, Saa90b, Saa90d, SAD\textsuperscript{+}00, SS11, SSC04].

approach [GS90a, SLX\textsuperscript{+}22]. **approximations** [KKPS18].

Approximate [BS02b, BS02c, CS94, CS97d, CS98b, Saa03a, BS02a, CrFS09, CS97f, US17a].

Approximating [LSY16]. **approximation** [CS09b, FSUS20, GS92a, XAKS23, BSS09, CCE\textsuperscript{+}18, CS97a, CS08, EGMS20, GS90b, GS90a, GS92b, GSS03, IT507, Saa84a, Saa86b, Saa86e, SS11, UMS17, XAKS24].

Approximations [CAS11, Saa92b, GHS10, US19].

Architectures [IS85, IS86b, IS86a, SS86b, GS89d, SS89b].

arising [Saa84a, Saa86b, Saa86e, SMSW00].

**ARMS** [BS02b, SSS85].

Arnoldi [BS85, DSS91b, Saa80c, SSW98]. array [SS85].

Assignment [DS91b, Saa88d].

Associated [DS91b]. **Atom** [TZA\textsuperscript{+}06].

Augmented [Saa97, CS97b]. **Automated** [KXS18]. automatic [GS94, Saa92a].

Banded [SS85e, SS87]. **Based** [BS05b, HS06, KS07, SZ99b, SrFS08, HTZ\textsuperscript{+}24, JSS07, LXS16, MOKS12, SW93, SW96b].

Basic [PSWF93, Saa90a]. basis [CT93, CTS94]. **Benchmark** [SW88b, SW88a, SW90]. Beresford [Saa83c]. between [BS02c]. Beyond [KXS18]. **BILUM** [SZ99a]. BILUTM [SZ99b].

biorthogonalization [Saa80a, Saa82a]. bisection [CrFS09].

**Block** [LS03, LSS03b, MS93, SS80, SZ99a, SZ99b, Saa03a, ZS08, CS97d, GS87, GS88b, GS88a, GS89b, Saa80b, SZ01, Saa23, MS92].

**Block-ADI** [MS93, MS92].

block-partitioned [CS97d]. **Boeing** [SW89]. **Book** [Cha96, Saa83c, Saa95].

bordered [CS95b]. **Bounds** [Saa94b, Saa94e]. brief [Saa20]. **Brownian** [ACSS12]. Bulk [TZA\textsuperscript{+}06].

calculation [ZSTC06b]. **Calculations** [OBSC03, CS10, AJT\textsuperscript{+}07, CT93, CTS94, JKSC99, SSC\textsuperscript{+}96, ZSTC06a]. Carolina [BCEP94]. Centenary [BCEP94]. century [Sv00, BW01]. CFD [CSW00, SST04]. CG [CLC24]. Chain [PS92, Saa91c]. chains [BGB\textsuperscript{+}10, RGSB08]. charge [BSTC05].

charging [RGSB08]. **Chebyshev** [ESS86, Saa84b, XAKS23, XAKS24, ZSTC06a, ZSTC06b, ZS07, ZCS14].

Chebyshev-filtered [ZSTC06a, ZSTC06b, ZCS14]. class [HTZ\textsuperscript{+}24]. classes [TF90]. clusters [CTJ\textsuperscript{+}95, JTD\textsuperscript{+}94]. CM [PSWF93, WS93].

CM-5 [WS93, PSWF93]. Coarse [MS07a].

Coarse-Grid [MS07a]. Coarsening [MS07b, CSZ22, OKLS15, US19].

codes [GS81, GS83, JKSC99, UMS17].

Communication [SS85a, Saa85a, SSS85d, Saa86c, SSS86b, SM95, SSS9a, SSS9b].

Community [CS12]. Compensation [MOKS12]. Complement [DKXS18, LS05b, SSS99a, GHS10, KLS16, LXS16, Saa07, XKL\textsuperscript{+}22, ZXS21].

complement-based [LXS16].

Complements [BS05a]. Complex [PS85, PS87, Ruh94, Saa83a, Saa4a, Saa86b, Saa86e, Saa87c]. complexities [GS89d].

Complexity [ISS84, ISS86, Saa85a, Saa86c].

Component [JS97]. Component-based [JS97]. Computation [BS05a, BKS08, RRV93, Saa74a, XLS18, LLCS02, dlGGS\textsuperscript{+}05]. Computational [PS20, SM95, Fit86]. Computations [BTS\textsuperscript{+}89, FWPS92, PSWF93, SW88a, Saa94a, SW88b, SW90, Saa90a].

Computers [FWPS92, SMS20, AS88, AS89].
[BSTC05, CAS11, Saa92e, Saa95, SSS10, TS11, XS16, XAKS23, ACSS12, CS18, CSZ22, PS07, Saa80c, SLX, XAKS24].

concepts [Saa24]. Concurrent [Saa95]. condition [Saa84a, Saa86b, Saa86e]. Conference [BCEP94, Fit86, KR83, RRV93]. Confinned [OBSC03]. Conjugate [SS85g, SS85f, SS86a, SYEG00, Saa6e, HTZ, Saa85c]. Concurrent [LS13a]. consistent [ZSTC06a, ZSTC06b]. Constructed [BS05b]. construction [CrFS09]. continuation [CS85b]. contour [KKPS18, LXSdH20]. control [DS91a, Saa90d].

Convergence [BS94, Saa80b]. convergent [BS89]. convex [BCEP94].


dans [Saa74b]. Data [SS85a, SS85d, SS86b, SS89a, SS89b, Saa94a, SM95, CrFS09, KMB, SSZ98, Saa84a, SYEG00, Saa6e, HTZ, Saa85c].

Definite [SS80, VSS14]. Deflated [CS97b, SYEG00]. deflation [Saa88d]. Dense [CS12, ISS84, ISS86, KMB]. Dense-Linear-System [ISS86]. Densities [XLS18, BSTC05, LSY16, USS17a]. Density [BKSO8, BKSO9, RGSB08, SSS10]. dGGS [dGGS]. density-functional [RGSB08]. dependent [BKSO9, RGSB08, dGGS].

Design [Saa87b, SW95, SW96a, Saa87a, SMSW00]. Detection [CS12]. Development [Saa22]. Developments [BW01]. Diagonal [SZ99c, Saa05, TS11, BKSO7, TS12]. diagonalization [JKSC99, ZCS14]. diatomic [CTWS94]. dictionary [US17].

Dielectric [OBSC03]. difference [CTS93, CTS94, CTWS94, JTD, SSS85]. Differential [CSS85, CSS87, SS11].

Dimension [CSS85, CSS87, SS11]. dimensional [CrFS09, LXS16, XSS17, SS14]. Dimensionality [KS07, NBS10, SrFS08].

Dirac [SS11]. Direct [SS85e, SS87, SW96b].

Direction [SS85c, JSS87]. disjoint [Saa83d]. Distributed [MS94, Saa92e, Saa94a, SM95, SSS98, SSS99a, SSS99c, Saa97].

Distributions [CS14]. Divide [LS13a]. Domain [CS92, KXS81, KPKS81, LS17, Saa94a, SS98, SSS98, XSS98, XSS12, CS93, CS96, LXS16, XSS97, Saa92a]. Domain-Based [SS99b]. Domain-Decomposition-Type [TS11]. Dominance [Saa05]. d'origine [Saa74b].

DQGMRES [SW93, SW96b]. dual [Saa92d, Saa94d]. Dynamic [SS85].

dynamics [ACSS12, CJWS96, JTD].

E. [Saa92h]. Editorial [Saa00a, BGSS14]. Effective [CS90a]. Efficient [AJT07, DPS16, GS90a, GS92b, GS92a, NPS16, dGGS, LSS86].

eigendecomposition [SS14]. eigenelements [Saa80c]. Eigenfaces [SrFS08]. Eigenproblems [ZS07, KCS09, KCS11, SGSM15].

Eigensolutions [Saa85b]. Eigenvalue [BSS10, rFS12, SS98, IS86b, LXV, PSS99, Ruh94, Saa83c, Saa84b, Saa11b, Saa16, SSS93, XSS18, DPS16, EGMS20, KLS16, KKPS18, NPS16, Saa82b, Saa83e, Saa89b, Saa92g, SSS96, SSS98, SSS99b, WSS98, ZS08].

Eigenvalues [BSS10, Saa74a, LXS19]. Electronic [JKSC99, SCS10, AJT07, CTS93, CTS94, CKV03, CTSZ07, CZC, SSS96].

element [KSS03, KSSG04]. Elimination
Elliptic [CSS85, CSS87, GS87, GS88b, GS88a, GS89b, GS89d, KS92, SS81, SS85).
Engineering [PS20]. Enhanced [SS99b, SZ01]. Environments
[Saa87b, Saa92e, CS99, Saa87a]. equation
[KSS03, KSSG04, LXSdH20, SL86, SL88, ZCS14]. Equations [CSS85, GS92a, MS92, MS93, BCRZS22, BS87, BS90, BS91, CSS87, ESS86, GS88b, GS88a, GS89b, GS89c, GS89a, GS90b, GS90a, GS92b, GS81, GS83, PS07, SS81, SSS85, Saa90c, Saa20].
Eric [Saa95]. Error
[Saa94b, CS18, Saa94e, UMS17]. estimate [CS18]. Estimation
[UCS17, DFP16, NPS16, USS17a]. estimator [BKS07]. Études [Saa74b].
Evolution [TZA+06, CTSZ07]. Evolving [Saa16]. EVSL [LXES19]. Exact
[Saa03a]. examples [CLS24]. excited
[BGR+10, SKBS88]. Experimental [CS97e]. exploration [Fit86]. Exponential
[Saa92b, CS98a]. Extended [SS85c]. Extraction
[CS12]. Extreme [rFS12].
F [Saa95]. Face [KS05a]. faces [KS05a].
Factored [BS02b, BS02c, BS02a].
Factorization
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Factorizations
[MOKS12, XAKS23, CCS10, XAKS24]. Fast
[CrFS09, US17a, UCS17, VS14, XLS18, GS87, GS88b, GS88a, GS89b, GS89d, US19].
February [GLGL94]. feedback [Saa88d].
Fermi [SS11]. few [Saa94b, Saa94e]. field
[ZSTC06a, ZSTC06b]. Filtered
[BKSO8, rFS12, Saa06, AKS17, ZSTC06a, ZSTC06b, ZCS14]. Filtering
[KX18, LXV+16]. Filters [X16]. Finding
[Saa03a]. finite [CTS93, CT94, CTWS94, JTD+94, KSS03, KSSG04].
finité-difference [CTWS94].
finité-difference-pseudopotential
Houston [Fit86]. Hybrid
[BS87, BS90, ESS86, GHS10].

Hydrodynamic [ACSS12].
[CS85a, CS85b, CS86, CS87]. Hypercubes
[SS85a, SS85d, SS85b, Saa86a, SS88, Saa86d, SS89a].

III [Ruh94]. ILU
[CSW00, CS97e, HS06, LS05a, MS94, OKLS15, 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
[LXES19, AKS17, BSK+03].

Implementations
[SS85f, SS86a, Saa91b, Saa93b]. Implicitly
[Saa91a, Saa93a]. Incoherence
[Saa83d, Saa84c, Saa87c, Saa88d, Saa88a, Saa88b]. Incomplete
[CSS85, CSS87]. Incremental
[Saa83d]. Indefinite
[DKXS18, XSI7, CS85b]. Saa92d, Saa94d, SW93. Saa94d, SW96b].

Indexing
[SrFS08, VS14]. Industrial
[SAD+00]. Inexact
[WS98]. Initio
[ÖBCO03, JTD+94]. Inner
[Saa91a, Saa93a]. Inner-Outer
[Saa91a, Saa93a]. Institute
[BTSt+99]. Integration
[KKPSt81, LXSt+92]. Interactions
[ACSS12]. Interior
[rFS12]. International
[BCEP94]. Interval
[DPS16, NPS16]. Intervals
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[BKS08, PS07]. Inverse
[BS02b, BS05b, CS89, CS89b, TS11, BS02a, CS97d, CS97f, TS12]. Inverse-Based
[BS05b]. Inverses
[BS02c]. Invert
[PS7, PS85]. Iron
[TZA+06]. Irregularly
[FRSY96]. Issue
[AASS11, BDG+10]. Iteration
[Saa16, ZSTC06b, ZCS14]. Iterations
[BKS08, CS98b, Saa00b]. Iterative
[BTS+89, CS85b, GS81, GS83, SS81, Saa83d, SM95, Sv00, Saa03b, Saa20, CSS02, GGL94, JSS07, KMB+18, LS13b, SW94, SW95, SW96a, SKL+97, Saa01, Saa24, Cha96].

J. [Saa92h]. Jacobi
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Kent
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[SMA95]. Key
[Saa24]. Kit
[Saa90a]. Kohn
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[ACSS12, BSS09, BS87, BS89, BS90, BS94, Ruh94, Saa81, Saa84c, Saa89a, Saa90b, Saa90d, Saa91b, Saa92b, Saa92e, Saa92f, Saa93b, Saa97, Saa98, Saa11a, Saa22, ZS08].

Laguerre
[SS81]. Lanczos
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Later
[FrFS08, VS14]. Learned
[US17]. Learning
[CS22]. Least
[AS11, LS06, Saa83a, Saa87c, XS16, Saa84a, Saa86b, Saa86c]. Least-Squares
[LXES19, SW94, SW95, SW96a, SKL+97]. Least-Squares
[LS06, XS16]. Level
[SS98, SS99c, SS10].

Library
[LXES19, SW94, SW95, SW96a, SKL+97].

Like
[DS91b, SS85g]. Linear
[Cha96, DKXS18, ITS07, ISS84, ISS86, MS92, MS93, MS94, SS85g, SS85e, SS87, SS98a, SS99a, SS99c, SS02a, XS17, AS88, DS91a, ESS86, GS81, GS83, GS90, JSS07, KMB+18, LS13b, OKS10, RRV93, Saa81, Saa83d, Saa84c, SS85, SS86c, Saa87c, Saa88d, Saa88a, Saa88b, Saa88c, SSZ98, SS99c, SS99b, Sv00, ZS10, Saa01, Saa02b, Saa03b, Saa07, Saa20, Saa24].
liquid [LLCS02].

Low [CS09b, DKXS18, LS13a, LS17, UMS17, CS08, LXS16, XLS16, XKL+22, ZXS20, XZS21]. Low-Rank [LS13a, LS17, LXS16, XLS16, XKL+22, ZXS20, XZS21].

Lyapunov [Saa90c].

machine [CSZ22]. Magnetism [TZA+06].

March [GGL94, KR83, RRV93].

Markov [PSS92, Saa91c].

Massively [FWPS92].

Mathematical [Fit86, Fit86].

Matrices [CS92, CS94, LSC03, LS13a, ÖBSC03, PS87, Saa85b, SW89, Saa96, SZ99b, Saa16, BSS09, CS93, CS96, CS97d, CS97e, CS97, LS05a, LSY16, PS85, Ruh94, Saa74a, Saa80c, Saa84a, Saa86b, Saa86e, Saa92c, Saa94c, UMS17, XLS16, XKL+22].

Matrix [AGPS03, ASSS11, AEKS90, BDG+10, FSUS20, FWPS92, IS86a, OKLS15, PSWF93, SW88a, Saa92b, Saa94a, SW94, TS11, XAKS23, BJR+09, BK807, BGSS14, CCE+18, CS98a, Saa83a, Saa83b, SW88b, Saa90a, SW95, SW96a, SAD+00, TS12, USS17a, US19, VSS14, XAKS24, dIGGS+05, KR83].

Memory [Saa87b, SM95, Saa87a]. Message [Saa87b, Saa87a, WS93].

Method [SS80, Saa87d, CTS93, CTS94, CTWS94, CS18, EGMS20, JTD+94, KSS03, KSSG04, LSS86, Saa80c, Saa85c, Saa23, SCS12, TS12, ZS08, ZCS14].

Methods [BTS+89, Cha96, CCSI09, CS14, D91b, G92a, LS17, PSS92, SS81, SS85c, SS85e, SS85f, SS86a, Saa7b, SS87, Saa91b, Saa92e, Saa93b, Saa97, CSS10, Saa11a, Saa11b, Saa22, SSW98, SOS+00, TS11, ACCS12, BSS09, BS87, BS89, BS90, BS91, CCS02, C85b, rFS09, Fit86, GS90b, GS92b, GGL94, JSS87, JS07, KS92, KCS09, KCS11, Saa80a, Saa80b, Saa81, Saa82a, Saa82b, Saa83d, Saa83b, Saa83e, Saa84c, Saa87a, Saa88d, Saa89a, Saa90b, Saa90d, Saa91c, Saa92g, Saa92f, Saa98, Saa01, Saa03b, Saa20, Saa24, SS98b].

minimal [SS86c, SW93, SW96b]. minimum [Saa00b].

Minneapolis [BTS+89, GGL94].

Minnesota [BTS+89, GGL94]. MIQR [LS05].

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Modification [MOKS12].

Modified [CS99, Saa84a, Saa86b]. module [SW94, SW95, SW96a].

Molecular [CJWS96, GGB+10, JTD+94].

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molecules [CTWS94]. moment [Saa84a, Saa86b].

Multi [Saa96, Saa92c, SSZ98, SZZ9c, SZZ01].

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multi-level [SSZ98, SZZ9c, SZZ01].

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Multielimation [SZ99a].

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Multilevel [BS05b, KXS18, LS06, SZZ99a, SS99b, Saa05, SrFS08, LSS03a, OLS15, SS02b, SST04, SSC04, US19, XLS16, XKL+22].

multiple [KMB+18].

Multiprocessor [CS85a, CSS85, CS86, ISS84, ISS86, CSS87].

Multiprocessors [SS85c, Saa85a, SZZ87, SZZ81, Saa86c].

multisecant [rFS09].

Multistage [HS06].

Multivariate [CS14].

N [Saa83c]. nanocrystals [CTSZ07, CZC+09].

Neighborhood [KS07, KS05b].

News [Cha96, Saa95].

Newton [BS94, WS98].

nlTGCR [HTZ+24].

NN [CrFS09].

Non [SS99c, SLX+22].

non-perturbative [SLX+22].

Non-standard [SS99c].

nonlinear

[BCRZ22, BS87, BS91, BS91, BS94, EGMS20, rFS09, HTZ+24, KS92, SGSM15].

Nonsymmetric [LS03b, MS92, MS93, MS07b, Saa84b, SS85g, Saa85b, SS886, Ruh94, Saa83a, Saa84c, SSS6c, Saa87c, Saa88a, Saa88b, Saa88c, Saa89b].

normal [BSS09, SLX+22].

North [BCEP94].

null
null-space [ITS07]. number [Saa86e]. numbers [Saa84a, Saa86b].
Numerical [BW01, PSS92, RRV93, Saa83b, Saa87b, Saa89b, Saa90c, Saa92g, SCS10, Saa11b, Saa87a, Saa91c].

oblique [Saa80a, Saa82a]. Observer [DS91b]. October [BTS'89]. ODE [GS81, GS83]. Ohio [RRV93]. Operator [Saa92b, CS98a]. OPRA [KS05a].

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P_SPARSLIB [SW94, SW95, SW96a, SKL+97]. Package [SW88a, SS02a, SW88b, SW90, XKL+22]. papers [GGL94]. Parabolic [GS92a, GS89c, GS89a, GS90b, GS90a, GS92b]. Parallel [BDG+10, BGSS14, BS+83, CS02, CS97f, FWPS92, FRSY96, GS90a, HS06, IS85, IS86b, IS86a, SS85e, SS85f, SS86b, SS86a, Saa87b, Saa89c, Saa01, SS02a, SO8+00, XAKS23, ZSTC06a, AS88, AS89, CS99, GS87, GS88b, GS88a, GS89b, GS89c, GS89a, GS89d, GH10, LS05a, LLCS02, SS80, Saa87a, SS89b, Saa92c, Saa94c, SW95, SW96a, SKL+97, SS99b, SSC04, XKL+22, XAKS24, AGPS03, ASS11]. parGeMSLR [XKL+22]. Parlett [Saa83c]. pARMS [LS03a, SS02a]. Partial [CSS85, DS91b, Saa85b, XS16, XAKS23, CSS87, Saa88d, XAKS24]. partially [BSTC05]. Particle [LLCS02]. partitioned [CS97d]. partitioning [GS94, LLCS02, Saa74a, VSS14]. Passing [Saa87b, Saa87a, WS93]. Pencils [KR83, XAKS23, XAKS24]. Performance [WS93]. periodic [AJT+07]. perturbative [SLX+22]. Phase [WGSC18]. physical [CS02, SSC04]. Pite [KR83]. Pivoting [BS02b, BS02a, LS05a]. plane [JKSC99, Saa83a, Saa84a, Saa86b, Saa86c, Saa87c]. plane-wave [JKSC99]. planets [SLX+22]. PMAA [AGPS03]. PMAA'10 [ASS11]. Point [LS03, LS03b]. pole [Saa88d]. Polynomial [BK08, CAS11, FSS02, SSS10]. polynomials [Saa83d, Saa83a, Saa87c]. portable [SKL+97]. Positive [SS80, VSS14]. posteriori [CS18]. potential [CTS93, CTS94]. power [ZXZ21]. Practical [BTS'89, Saa84c, Saa85c, BTS'89].

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