A Bibliography of Publications about the Fast Multipole Method

Nelson H. F. Beebe
University of Utah
Department of Mathematics, 110 LCB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 5254
FAX: +1 801 581 4148
E-mail: beebe@math.utah.edu, beebe@acm.org, beebe@computer.org (Internet)
WWW URL: http://www.math.utah.edu/~beebe/

06 March 2015
Version 2.97

Title word cross-reference

1 [TPKP12]. $15K$ [WGL+98]. 2 [GROZ04, Lab98, Liu08, ON08a, RS94, VGZB09, WYW05, WXQL08]. 3 [BDMN03b, BHR04, BHGR04, CDM98, DDL13, Dar02, GP08, GD03, JMC97, NW89, NH97, ON08b, PG94, Sar03, WY05, WLL+07, iYNK02, YB01, ZY05]. $50/$Mflop [WSB+97]. $7.3$/Mflops [KFM99]. 3 [PG96b]. $h = 0$ [DNS90]. $K$ [MG05, CK95b]. $LU$ [MG07]. $R^N$ [CBN02]. $N$
[Aar85, Alu94, APG94, Ali96, AGPS98, AAL+01, And99, Ano94a, Ano94c, ADB94, ADBG99, Bag02, Bar86, BADP96, BAAD+97, BADG00, BAD01, BS97, BN97, BOX00, Bor86, BDS07, BME90, BME93, BEM94, DH86, Dem95, Dem96a, Dem96b, DHM03, FRE+08, FM95, FM96, FQG+92, HTG02, HJ96, IFO09, IIM05, Kat89, KFM99, KFM01, KMT94, LKM02, Liu94, MIES90, MNTS94, MG95, MD12, MG05, MMC99, MCD97, NM96, Oku96, PGB05, Per99, PRL03, SW99, SL96, Sha06, SP99, Sin92, SH95, SHG95, RHT+12, TMES94, TWYC06, TY01, TY02, Ten98, TL14, WPM+02, WS92, WS93, WN14, WSL95, WHS+12, Xu95, YF05, Ano94b, CK95a, CK95b, GKS94, GKS98, Gre90b, HNY+09, HN10, HS95, KK95, Xue98]. $N \log N$
[AO10, DYP93, ADO11]. $\nu$ [SH07]. $O(\log_2 n)$ [JBL02]. $O(N)$
[BSL11, Deh02, DTG96, OKF14, Xue98]. $O(N \log N)$ [BH86, FGM11, PJY95]. $r^{-\lambda}$
[CJ05]. $R^{-\nu}$ [SH07]. $r \pm 1/2$ [Pan95].
-Body [Ano94b, CK95b, GKS94, KK95, BEM94, GKS98, Gre90b, HNY+09, HN10, HS95, Xue98, AGPS98, AAL+01, Aud99, AD99, Bag02, BADG00, BS97, BN97, BOX00, FM96, HTG02, HJ96, KFM99, KFMT00, SWW94, SHC95, SHT+95, Ten98, WPM*02, WS93, Xu95, YF05, Aar85, Alu94, APG94, Alu96, Ano94a, Ano94c, ADBGP99, Bar86, BADP96, BAA+97, BAD01, BDS07, BME90, BME93, CK95a, DH86, Dem95, Dem96a, Dem96b, DHM03, FRE+08, FM95, FQG+92, IFM09, IHH05, Kat89, KMT94, LKM02, Liu94, MIES90, MTES94, MT95, MD12, MG05, MMC99, NHM06, Oku96, PGB05, Per99, PRL03, Sal96, Sha96, SP99, Sin92, SRK+12, TME94, TWY06, TY012, TY012, TL14, WS92, WN14, WSWL95, WSH+S12].

- [NH97, BDMN03b, CDM98, DDL13, Dar02, GROZ04, GD03, JMC97, NW89, Sar03, TPKP12, WYW05, YB01, ZY05].

-dimensional [Lab98].

-means [MG05].

-Nearest-Neighbors [CK95b].

/ [Ano95a, KK88].


3 [OME+92]. 3-D [WY07a]. 3051-66 [YB97]. 33rd [IEE92a]. 3D [LO96b].

4 [Ano94a, FM95, FM96, MTES94, MT95, TMES94]. 42 [HN+09].

5 [KFM99, KFMT00]. 512 [MHI07]. 512-core [MHI07]. 512-Gflops [MHI07].

6 [MKF00, MF01, MKFD02, MFKN03].

8 [MD12]. '88 [KK88]. 8th [BGPW00].


= [Ano97b].

A-posteriori [XTH09]. above [GSC01].

Accelerate [CS98b, LSCM96, LKM02, TYNO12].

Accelerated [BCL+92, EB96, SH07, WN14, BHE+94, BHER94, EB94, EG01, GD09, GODZ10, GAD13, Ham11, JH08, LCM07, MR07, Tak14, WLL+07, ZD05].

Accelerating [GHRW98, MG09, WC94a].

Acceleration [CKE08, LCZ07, SWW99, VCM00, BK96, KCF+05, SGD+04].

accelerator [ATMK03, MD12].

accomplishments [Ano90].

Accuracy [CDCD97, DY98, CB09, GL96, JP89].

Accurate [SRPD06, AHP93, Dac06, EG09a, EG13, HHKP09]. achieves [WGL+98]. Achieving [SSF96].

ACM [IEE02, Kar95]. ACM/IEEE [Kar95, ACM97].

acoustic [AD05, BSL09, BN07, CWK08, GF06b, GF06a, HW10, TCW08, WJYO06].

acoustic-structure [GF06b, GF06a].

acoustics [FPG05, OLL04]. Acta [Ise97].

Adaptation [McK96]. Adapted
Adaptation [NT96, NT94], adaption [BLA05].

Adaptive [BT95, BSL09, BS97, BFO99, GE13, GP08, HEGH14, KK95, NPR93, SHHG93, SHT+95, Ten98, ZT97, BCP08, CGR88, CGR99, CHLO6, CFR10, FOCB96, GY08, GL96, HJZ09, LCL+12, LB92a, LCHM10, LCHM13, PRL03, YBZ04, ZHPS10].

addition [HC08, KSC99].

address [HS95].

Advanced [HM86, Win95, dCGQS06, TYON12].

Advances [BLA05, SM05].

address [HS95].

Analyse [Ano90].

Analyzing [CSMCxx, JMC97].

Angeles [AG88, Rod89].

Anger [CC04].

angular [GY08, WHG96b].

Anger [CC04].

Annual [Ano95b, Ano96, Ano97a, IEE92a, Mak93, PA02].

approximation [AP99, AP00, BH89, ERT12, HAS02, Hol12, JMBC98, LCK11, Sat10, VTG91, Ano97b, Car07, Car09, Dar00a, EG13, JMB98, JKCGJ08, KSC99, NH97, OLL04, Pel98, RC97, SGD+04, SSG+04, SS07, Sud04, WY05, WY07b, WY07a].

Analytical [ABD04, BSSF96a, LCD14, BSSF96b, DDL13].

Analytical [Gue98, CC13], analyze [SHM98], Analyzing [CSMCxx, JMC97].

anteploration [Sar03].

Appendix [Ano90].

Application [LSCM96, LJ96b, LJ96a, NH97, SGD+04, VOD08, WSS+95, DHM03, ESSR01, GROZ04, HNO06, IWM+02, SGD+04, YR98].

Applications [CK95b, CCKL09, OSW05, BHER94, HNY+09, LGG+09, On07, ON08b, PDS9, ZY05, dCGQS06, TDBEE11].

Approximate [BGPW00, RSS96, Ano95b, Ano96, Ano97a, BN07, MB05, OCR08].

Approach [AC94, SHMC97, WC94a, AHLP93, BWS+95, KAN95, KAN96, PGB05, SHM98, WJGH96a].

approximations [DC07, HW11, Lem04, RŚZ09].

April [Dem95, Dem96a, Dem96b].

Aqueous [GP93].

Arbitrary [LS93, EIM+92, GSC01, GL96, KS98b, LM02, Tau03b, YRGS10].

Architecture [LSCM96, AO10, GP08, ST06].

approximations [DC07, HW11, Lem04, RŚZ09].

April [Dem95, Dem96a, Dem96b].

Aqueous [GP93].

Arbitrary [LS93, EIM+92, GSC01, GL96, KS98b, LM02, Tau03b, YRGS10].

Architecture [LSCM96, AO10, GP08, ST06].
Architectures [SHG95, HGD11, LCL+12, MMC99],

arithmetic [LKM02], armed [KLM+09],

array [CKS91], article [Dac10], ASCI [WSB+97], aspects [CHIN03], assemblies [CPP93, LDB96].

Astrophysical [Ano94a, KFM99, MTE94, MT95, MFKN03, WS92, HN10, TME94].

Astrophysics [FQG+92, HNY+09].

asymptotic [BK96, Dar00a].

atom [DKG92c, FRE+08].

Atomic [AC94, DKG92a, Kon93].

Atoms [McD97, Pie93].

August [IEE96b, RSS96].

Australian [Ano92].

Automatic [RGKM12].

Autotuning [HEGH14].

Avalon [WGL+98].

Axial [SMC97, SM97].

B [Ano90].

balance [BAAD+97].

Balancing [SHT+95, Ten98, FG96, MG05].

Baltimore [IEE96a, IEE02].

Barnes [AAL+01, Ano94b, BJWS96, BGLM05, GKS94, GKS98, SHT+95, WSM+93].

barrier [WHG96b].

Based [CD13, GSS99a, GSS00, MPPA96, YB01, AO10, BLA05, BN98, BHR05, FMI+93, GROZ04, GKD09, GP08, HHP90, HLL08, LM02, LDB96, Liu08, NN12, Sud04, Tak14, WL06, ZHPS11].

bases [FBIJ04, TW03].

basis [BLA05, BL97, BN98, BCR01, Buh03, CB02, GH08, GDDC08, GD07a, LCZ07, Yin06].

BE [SGD+04].

Beach [IEE95].

Behaviour [ON09a].

Beltrami [SHMC97, SM97, SMC97].

BEM [Ano88, BN07, FP05, GP06b, GP06a, HKS05, MB05, NH97, Tau03a, WYW05, XWT09, XTH09, XYW+08, hYTwbWL08, YBK+11, ZY05].

BEM-FEM [MB05].

Beowulf [WFW02].

Between [Pie93, CD198, RSZ09].

Beyond [ZH14].

Bianisotropic [SHMC97, SHM98].

BIE [Liu08].

biharmonic [GD06].

billion [YBK+11].

binary [PD89].

binding [KSS10].

biomacromolecular [SKT94].

Biomolecular [SRPD06, YBK+11, KP08, LCM07, LCHM10, LCHM13, SKT93].

biomolecules [AO10, FGM11].

Biot [Ros06].

black [FD09, MFK00].

black-box [FD09].

BLAS [CFR08, CFR10].

Blobs [DD95].

blocks [CM94].

block-diagonal [CM4].

Blue [FRE+08].

BO12 [LB91].

board [ATMK03].

Bodies [BT95].

Body [AGPS98, AAL+01, And99, ADB94, Bag02, BADG00, BS97, BN97, BOX00, CK95b, FM96, GKS94, HP95, HTG02, HJ96, KFM99, KFMT00, KK95, Pie93, SWW94, SHCG95, SHT+95, Ten98, WPM+02, WS93]

billion [YBK+11].

binary [PD89].

BLAS [CFR08, CFR10].

Blob [DD95].

blocks [CM94].

block-diagonal [CM4].

Blue [FRE+08].

BO12 [LB91].

board [ATMK03].

Bodies [BT95].

Body [AGPS98, AAL+01, And99, ADB94, Bag02, BADG00, BS97, BN97, BOX00, CK95b, FM96, GKS94, HP95, HTG02, HJ96, KFM99, KFMT00, KK95, Pie93, SWW94, SHCG95, SHT+95, Ten98, WPM+02, WS93]

billion [YBK+11].

binary [PD89].

BLAS [CFR08, CFR10].

Blob [DD95].

blocks [CM94].

block-diagonal [CM4].

Blue [FRE+08].

BO12 [LB91].

board [ATMK03].

Bodies [BT95].

Body [AGPS98, AAL+01, And99, ADB94, Bag02, BADG00, BS97, BN97, BOX00, CK95b, FM96, GKS94, HP95, HTG02, HJ96, KFM99, KFMT00, KK95, Pie93, SWW94, SHCG95, SHT+95, Ten98, WPM+02, WS93]

billion [YBK+11].

binary [PD89].

BLAS [CFR08, CFR10].

Blob [DD95].

blocks [CM94].

block-diagonal [CM4].

Blue [FRE+08].

BO12 [LB91].

board [ATMK03].

Bodies [BT95].

Body [AGPS98, AAL+01, And99, ADB94, Bag02, BADG00, BS97, BN97, BOX00, CK95b, FM96, GKS94, HP95, HTG02, HJ96, KFM99, KFMT00, KK95, Pie93, SWW94, SHCG95, SHT+95, Ten98, WPM+02, WS93]
VGZB09, WY05, WY07b, WY07a, WSWL95, XJM08, Yin09, iYNK02, YSM05, BR93.

Boundary-Integral [LJ96b].

boundary-value [Lin95]. Bounds [GSS98a, GSS00]. box [FD09]. breast [ES04]. Broadband [WJYO06, GD09]. Brownian [DHM03]. Building [TD09]. buried [ERS01, GSC01].


GD03, GD05, GODZ10, McD97, MSV92, Pie93, YRGS13, ATMK03, AO10, FOCC96.

Computational [Bat03, BGPW00, JBL02, Kat89, Les96, Mat95, TDBEE11, Ano95b, Ano96, Ano97a, OMH+94, SM05].

Computationally [KM00].

Computations [ERT12, Pan92, KAN95, KAN96, OKS09, SyI03, VOD08, WJGHG96a, YF98].

Computer [AT87, Ano94a, BGGT90, BP88, CKE08, FM96, HE88, IEE92a, KFMT00, MTES94, MFKN03, Bar86, EIM+92, EFT+93, FMI+93, FM95, HFKM98, HG90, KMT94, MIES90, MT95, MHI07, OMH+94, OYK+14, OME+92, SCM+90, TMES94].

Computers [FHM99, LCP93, MT98, DK93, LBI+97, NKV94, OCK+03].

Computing [ACM97, B+95, BGI+99, HTA+97, Hol12, IEE94b, IEE96b, IEE98, LCK11, Mat95, PA02, SMHC97, WWF02, WSY+95, CGL03, CPP93, MHI07, MMC99, PRT92, Rod89, SH07, Xue98].

concise [PJY96].

conditions [CWHG97, SKT93, Sin95].

Conducting [GA96a, HAS02].

conduction [RO04].

Conference [ACM96, ACM97, Ano92, Ano95a, B+95, BR93, HTA+97, Hol12, IEE94b, IEE96b, IEE98, LCK11, Mat95, PA02, SMHC97, WWF02, WSY+95, CGL03, CPP93, MHI07, MMC99, PRT92, Rod89, SH07, Xue98].

Converting [GA96a, HAS02].

Connected [CC13].

constant [Rei99].

Constrained [PGB05, Sal96].

Constructing [BF78].

construction [HHKP09].

controlled [Dac95].

control [GK09].

control [Dac09, Dac10].

controls [JP89].

Convention [ACM99, Hol12, Kar95].

Convergence [VTG91, Lab98, RO04].


Correlations [ZQSW94].

Cosmological [Bag02, BH88, IFM09, YF05, Spr05].

Coulomb [ADG96, BFO99, CFH89, DNS90, DKG92a, DKG92b, DKG92c, DTG96, GGM01, GH02, HJZ09, KS98a, SP96, SFP96, ZHPS10].

Coulombic [PG96b, SKT93].

Coupled [LS05, PNB94, SGD+04, NMDK99].

Coupling [BDMN03a, BDMN03b, Dar02, DM07, GBMN06, MB05]. course [BG97].

CPU [HEGH14].

Creep [Kro99, Kro01, Kro02].

Cross [Gue97, GP08].

Crystal [MPPA96].

crystals [ON08b].

CS [Dem95, Dem96a, Dem96b].

Cubic [WWF02].

Current [CGL03, Les96].

curved [GH08].

curves [STZ14].

Custom [PA02].

cutoff [KLM+09].

cutoffs [DKG92b].

Cylindrical [CG97, ZCG00].

D [NH97, BDMN03b, BHR04, BHGR04, CDM98, DDL13, Dar02, GROZ04, GP08, GD93, GA96b, JMC97, Liu08, NW89, ON08a, ON08b, PG94, RS94, Sar03, TPKP12, VGB90, WW05, WW05, WW07, WLL+07, WXQL08, yYNK02, YB01, ZY05].

Dame [IEE96c].

Dangers [BS93].

Dark [ZQSW94].

Data [AAL+01, And99, BGLM05, HJ96, LY14, NPR93, SS89, SHT+95, WPM+02, BADP96, BAAD+97, DR95, KPO8, LOSZ07a, RZ90, WS92, YGR01].

Data-driven [LY14].

Data-Parallel [HJ96, NPR93].

data-sharing [BADP96].

data-sparse [LOSZ07a]. databases [Mak93].

DC [IEE94c].

debugging [RC97].

December
eigendecomposition [CG04]. Eighth [HTA+97]. elastic [CCZ97, TC09].

eigendecomposition [CG04]. Eighth [HTA+97]. elastic [CCZ97, TC09].
Excitation [GIS98], execution [BDS07, LY14, YF98], exhibition [Ano95a]. Existence [YSM05], Expansion [Le 97, OC05, Pan95, SPS96, AHLP93, OC03, WL96, WXQLO8], Expansions [Boy92b, CJ05, McD97, RGKM12, AR91, GB11, Lem98, MD98, SH07], explicit [JP89], exponential [TWYC06]. Expressions [Pan95, CS82]. extended [KS11]. Extending [CDJ07, DC07]. Extension [GY08, TYON12]. eXtensions [TYON12]. exterior [AP03]. Extraction [YB01, JC04, NW89]. extreme [WSH+12], extreme-scale [WSH+12].

facility [RTZ+96]. FAMUSAMM [EGHT97]. Fast [LSCM96, HW11]. fast [NPR93, Of07, OKS09, PSN04, Pri94, RRR05, RW94, RS94, SWW94, Sch94, SG97, SHMC97, SMC97, SHHG93, SHT+95, SC94, SC95, SLC96, SLC97, Sta95a, SP01, STZ+14, WC94a, WC94b, WLMP99, WY05, WY07b, WXQL08, WSW+95, XWY+08, XJM08, YR99, Yin09, YNS+09, YB01, ZY05, AHLP93, AR91, AGR88a, AGR88b, AP99, AP00, AP03, Ami00, ATM03, ATR+12, BDMN03a, BDMN03b, BSL09, BG97, BWS+95, BV96a, BSS97, BCL+92, BP03, BSSF96a, BSSF96b, BK96, CDJ07, CC04, CC05, Car90, CRG98, CWH97, CDF10, CWK08, CCKL09, CRG99, CHL06, CC+06b, CRG01, CPP93, CWD08, CRW93, CFR08, CB09, Dac09, Dac10, Dar02, DM07, DM12, Dar0a, Dar0b, DH04a, DH04b, DC07, DRS96, ERS91, ES04, Eng11, EG08, EG09a, EG09b, Erg11, EG01, FGM11, FLZ97a, FLZ97b, FPG05].

Fast [FD09, Fu98, GDDC08, GBMN06, GF06a, GF06b, GIS98, GY08, GR02, GROZ04, GKD09, GE13, GR87, GR88b, GS99, GS90, GH02, GD05, GD09, GODZ10, Han11, HHP90, HS08, Hav03, HLL08, HW10, HW11, HU97, HR98, HGD11, HJZ09, Kan15, KM00, KSS10, KS11, Kon93, KLM+09, KS98a, KS98b, KS04, KP05a, KP05b, KP08, KAN95, KAN96, Lab98, LOSZ07, LCL+12, LB91, LB92a, LB92b, LJS98, LZL04, LGG+13, LC14, Lii08, LY14, LC07, LCM07, LCM10, LCM13, LW+02, Mak99, MG07, MG09, MR07, MRH14, NT09, NN12, NH97, OR89, OSW05, OSW06a, Ofo8, OCK+03, OYK+14, OMC08, OLL03, OLL04, OFH+08, OP07, ON09a, PJY96, PSPS94, PSPS95, PS895, PA14, Rah96, RRR03, RSZ09, RTZ+96, RO04, RTA+08, RS97, RS06, Rc07, SGG+04, Sar03, Sar10].

Fast [SL97a, SL97b, ST06, SWW99, SM97, SMH98, SH07, SKT94, Sin95, SKPP95, SP97, Sta95b, SB96, ST02, SK04, Sud04, Syl03, Tak14, Tau03b, Tau04, TCW08, TC90, TG08, TD09, VOD08, WJYO06, WL96, WY05, WY07a, W+07, WFC08, WHG94, WJGHG96a, WHG96a, WJG96b, WHG96b, WSLW95, XWT09, YRSG13,
Fast-multipole
[Dar97, EGG01, Tak14, ZCL+98]. FCCM
[PA02]. FE [SGD+04]. February [B+95].
FEM [MB05]. FFT [TPKP12]. FTTM
[HLL08, LHL08, OLL04]. fiber [WY07a].
fiber-reinforced [WY07a]. Field
[LSCM96, PA02, ABD04, BHGR04, BHGR05,
HW11, MD98, OKS99, WFC08, Xue98].
Field-Programmable [PA02]. Fields
[C95b, Gre87, SHMC97, SM97, SB98,
YR99, CK95a, CG97, DC07, ESM98, Gre88,
GR88a, GM94, GH98, HR98, OLL03,
Pel98, ST06, SM97, VD08]. Fifth
[Ano92, IEE96b, MC92, IEE98].
Field-programming [BP03, YR98].
finite [Bar86]. Finite
[FST03, LJ96b, LJ96a, Beb06, Ich02, LS05,
LCZ07, SGD+04, Sat10, VV02].
Finite-Element [LJ96b]. finite-sized
[Sat10]. First [OKF14, AHLP93].
First-Principles [OKF14]. FISP
[SLCL98a, SLCL98b]. Fitted [ÁC94].
fitting [TWYC06]. floating [LKM02].
floating-point [LKM02]. Flow
[Fri94, ECL02, Gre90a, GKM96, GKO4,
NMDK99, Tau03a]. Flows [CCG+99,
WSP+95, BCH93, Kro99, Kro01, Kro02].
Fluid [SWW94, TDBEE11, Bat03,
OMH+94, VGB09, WSWL95]. fluids
[BPK85, LRJ+99, ZB14]. FLY
[BAD01, BCAD06]. FM [BN07]. FM-BEM
[BN07]. FMA [LQ96b], FMBEM
[CWK08]. FMD [LWM+02]. FMM
[C95+06a, EMRV92, HNO+06, HJZ09,
MRH14, No8a, No8b, ON98b, ON98b,
SGD+04, SB98, ZHS10]. Fock
[KAN96, WJG96a, KAN95]. Fokker
[Lem98, Lem04]. Force [Deh02, BH96,
EIM+92, JP98, Xue98, YRGS13].
force-calculation [BH86]. Forces
[BP88, CDM98, NT96, Pie93, BH03, CKS91,
DM90, LDB06]. Form
[CI05, AP99, BCP08, SH07]. Formation
[FM96, FM95, SWJ+05]. forms
[KSC99, Rah96, Rok98]. Formula [CL12].
formulae [NN12]. Formulation
[AAL+01, JBL02, CB14, CWK08, CCKL09,
CFR08, CFR10, DM07, GD07b, Liu08,
OSW06a, DM12]. Formulations
[Ano94b, GKS94, MG11, GKS98].
Fortran [GD98]. Foundations [IEE92a].
Four [BCR01]. four-dimensional [BCR01].
Fourier [Boy92b, EMT99, Boy92a, CD13,
DR95, EB94, EB96, HLL08, HW10, LHL08,
OLL03, OLL04, Sar03, ZHPS11].
Fourier-Based [CD13].
Fourier-series-based [ZHS10]. FPGAs
[KL92]. Fractional [WH96a], fracture
[XWY+08]. framework [TPKP12].
Francisco [B+95]. Fredholm [AHLP93].
free [BSL11, BKM90, Car06]. Frequencies
[GHRW98, DH04b, ZC00]. Frequency
[Nil04, BK96, DH04a, KMC09, ZC00].
frontiers [And08]. Fully [VTG91].
function [BLA05, BKM90, GDCC08,
GD07a, GDZ10]. Functional [DR96,
KAN95, KAN96, WJG96a, WJG96b].
Functions
[Boy92b, BL97, BN98, BCR01, Buh07,
CBN02, KMC09, LCZ07, Tau03b, Yin06].
Future [EMT99].

GADGET [Spr05]. GADGET-2 [Spr05].
galactic [MFK00]. galaxies [SWJ+05].
Galaxy [FM96, FM95]. Galerkin
[AHL93, AP03, HKS05, OSW05, WXT09].
Gauss [GS91]. Gaussian [BSSF96a,
BSSF96b, KS98a, Le 97, Ros06, Sal96].
Gegenbauer [CC05]. General
[LC04, McD97, BSL11, FG96].
Generalization [Boy92b]. Generalized
[ADO11, CBN02, GR02, KAN95, KAN96, ST06, SK04, WJGHG96a, YR98].
Generation [Sal96]. geometric [CDF10].
Geometries [MGM95, KS98b, NW89].
Geometry [SC94, TW03]. Gflops [MHI07, WGL+98]. giant [RTZ+96].
gigaflops [WSB+97]. GMRES [GGC06].
Good [Ten98]. GOTPM [DKPH04]. GPU [GE13, Ham11, HEGH14, Kan15, WN14].
GPU-accelerated [Ham11]. GPUs [HNY+09, HN10, YNS+09, YBK+11, YBNY12, YBNY13].
gradients [BSSF96a].
grain [Bar86]. grained [PA14].
graining [GB11]. granularities [BME93, BEM94].
GRAPE [Ano94a, CKE08, EIM+92, EFT+93, FM95, FM96, KFM99, KFMT00, MIES94, MTES94, MT95, MKF01, MKFD02, MKFN03, Mak04, MHI07, MD12, OME+92, TME94, TYON12, YF05].
GRAPE-2A [EIM+92]. GRAPE-3 [OME+92]. GRAPE-4 [Ano94a, FM95, FM96, MTES94, MT95, TME94].
GRAPE-5 [KF99, KFMT00]. GRAPE-6 [MF90, MKF01, MKFD02, MKFN03].
GRAPE-8 [MD12]. GRAPE-DR [MHI07]. graphics [GD08]. gratings [Sat10].
gravitating [TYON12]. Gravitational [CDM98, SWW94, DHM03, MD12, OME+92, SCM+90]. Gravity [BOX00, Xu95]. GreeM [IFM09]. Green [BKM09, Tan03b]. Greengard [Alu94, Alu96, HM95, SB98]. Green’s [CB14]. Grid [Ber95, Bor96, Boy92a, HTG02, Bes00, Car06, DM90, ZGI+10].
ground [TCW08]. Group [Wel91].
guided [Sat10]. guided-mode [Sat10]. Guidelines [BV96b, BV96a]. guns [NH97].
GvFMM [BSSF96a, BSSF96b]. half [BSL09, CB14, GSC01]. half-space [BSL09, CB14]. Halos [ZQSW94].
Hamiltonian [CDF10]. Hanover [Mak93].
hardware [ATMK03]. Harmonic [CAJ03, GD07b, GODZ10].
harmonics [PJY96, ST02, WL96, YR98]. HARP [KMT94].
HARP-1 [KMT94]. Hartree [KAN96, WJGHG96a, KAN95].
Hashed [WS93]. Haskell [TL14]. head [GODZ10, KMC09]. head-related [GODZ10, KMC09]. heavy [RTZ+96].
heavy-ion [RTZ+96]. Held [HTA+97, HM86, AG88, Ano97b, K+96, Rod89].
Helmholtz [AP03, BKM09, CD13, CHL06, CCG+06a, CCG+06b, CC10, CC12, DDL13, Dar02, GHRW98, GD03, GD09, GAD13, GS98, NN12, Nil04, OLL04, ON08a, RS97, Rok98, Sta95b, Sta95a, VW02]. Hermite [KMT94, NMH06]. Hierarchical [ADB94, HGD11, LCL+12]. Hierarchical-element [VCM00].
High [ACM97, BGI+99, BK96, CFR08, CFR10, FHM99, GBMN06, Hol12, IEE94b, IEE96b, IEE98, LCK11, Nil04, TYW06, WWF02, DC07, GH08, GYO8].
High-Density [WWF02]. High-frequency [BK96].
High-order [TWY06, DC07, GH08].
High-Performance [FMH99, IEE94b].
Higher [PNB94, RRR05].
Highly [BS97, OME+92, YBNY13]. Hilton [IEE90].
holes [MKF00]. homogeneous [CL91, YRGS13]. homogenisation [HNO06]. host [SHM98]. Hotel [IEE97].
Hut [AAL+01, Ano94b, BJW96, BGLM05, GKS94, GKS98, SHT+95, WSH+12, ZBS11].
Hybrid [HEGH14, JMC97, WN14, DKPH04, LZL04, LC93, OFH+08, SGG+04].
Hygla [WSB+97]. hyper [DHM03].
hyper-systolic [DHM03].
Hypercube
Karhunen [ST06]. Kernel [CWA14, MR07, YBZL03, YBZ04, Yin06, ZHPS11].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernels [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels
Karhunen [ST06]. Kernel [CWA14, MR07, YBZL03, YBZ04, Yin06, ZHPS11].
kernels [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Kernel [CWA14, MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
kernel-independent [MR07, YBZL03, YBZ04, ZHPS11]. Kernels [LCD14, GR02, PSN04].
Matrix
[PNB94, SP01, Car06, FG96, XWT09].

Matrix-free [Car06]. Matrix-vector [XWT09].

Matter [ZQSW94, FRE08].

May [AG88, IEE94b].

Mechanical [SGD04, WY05, WY07a].

Mechanical-electrostatic [SGD04].

Mechanics [BCM02, Bat03, HytWbWL08].

Media [GA96a, GA96b, GROZ04].

Medium [ZCL98].

MEG [KCF05].

MEG/EEG [KCF05].

Memory [YB01, BCOY93, DK93, KP05b, LBC91, LBCPP92, MMC99, RC97, Ske89].

MEMS [SGD04].

Mesh [BOX00, DYP93, DKPH04, KM00].

Meshes [HKS05].

Message [BLA05, YNS09].

Message-passing [KP08].

Metamaterials [OMC08].

Meter [WWF02].

Method [Alu94, AAL+01, And92, Ano94b, BT03, BPT+14, BVW96, BV96b, BL05, BH88, CL12, CS98b, CKB11, EMRV92, GP93, GKS94, Gue97, GA96a, GA96b, GS98, HOST95, HAS02, KLZ+06, LCD14, LSCM96, LJ96b, LJ96a, MI96, McK96, NTF6, Nn04, RRR05, RW94, Sch94, SG97, SM97, SSS93, SC94, SC95, Sta95a, SP01, WC94a, ZJ91, AGR88a, AGR88b, AP00, AP03, Ami00, ATMK03, BDMN03a, BDMN03b, BSL90, BG94, BWS+95, BV96a, BL98, BH03, BHR04, BHGR04, BHRG05, BSSF96a, BSSF96b, BK96, CDJ07, CL91, CC04, CC05, Car99, CWH97, CDF10, CCZ97, CKW08, CCKL09, CGC+06b, CR01, CPP93, CRW93, CFR08, CB09, Dac06, Dac09, Dac10, DYP93, Dar02, DM07, DM12, Dar97, Dar00a, Dar00b, DH04a, DO4b, DO7, DRS96, DKG92a, DKG92c, ERS01, ECL02].

Method [FGM11, FOGB96, FLZB97a, FLZB97b, FD09, Fuj98, FMI+93, GDDC08, GSC01, Gib08, GR02, GROZ04, GKS98, GG89, GG90, GH02, GP08, GD05, GD06, GD09, GODZ10, Ham11, HM95, Hav03, HC10, HW10, HW11, Hu97, HJZ09, Ich02, JH08, JC04, Kan15, KM00, KTS10, KS11, KLM+09, KMC09, Kro01, KS98b, KS04, KP05b, KN95, KCF+05, Lab08, LCL+12, LJ98, LGG+13, LHL08, LC14, Liu08, Liu09, LCZ07, LCM07, M95, Mak99, MB05, MR07, Mil08, MRH14, MMNB06, NT94, NH97, OSW05, OSW06a, OS0, OKS09, OCK+03, OYK+14, OMC08, OFH+08, OP07, ON09a, PN95, PPS94, PPS95, PSS95, PG96b, PA14, RRR03, RO04, RTA+08, RS97, RS06, SGG+04, Sat10, SL97a, SL97b, SM97, SH07, Sin95, SKPP95, SP97, Sta95b, SK04, Sud04, Sy03, Tak14, Tan03b].

Method-Efficient [NT96].

Methods [Aar85, Alu94, AG88, BS93, BS97, BR93, DY98, Dem95, Dem96a, Dem96b, FQG+92, GHRW98, GW98, HEGH14, HJ96, LRW95, MBA97, SRP06, SHG95, SHT+05].

TDBEE11, VTB91, WSW+95, YF05, A+97, BLA05, BCH93, BL97, BC97, BN98, BCR01, Bes00, BDS07, Car07, CBN02, CJL+97, CW08, CK00, Eng11, Gas97, GBMN06, Gy08, GCG+99, Goe99, GE13, GKM96, GKO4, GD08, HS95, HGD11, Kro99, Kro02, DP05a, KP08, LS05, LOSZ07a, LOSZ07b, LOG12, Lin95, LY14, MC92, NN12, OSW06b, OF07, Oku96, PJY96, PG96a, RS94, ST06, SKT94, SM05, Sin92, SB96, TD09, YGSR01, aYZ97, YNS+09, YBNY12, MC92].

Microlithography [Ful97].

Microlocal [BDMN03a, BDMN03b, Dar02, GBMN06].

Micromagnetic [VOD08].

Microprocessors [NMH06, MSV92].
Microscopic [HB93], Microstrip [MI96, MI95, ZCL+98], Microwave [Ano95a, ZC00], militaires [Ano97b].
military [Ano97b], million [DKG92a, DKG92c]. million-atom [DKG92c].
MIMD [FQG+92, LB92a]. mine [ESRS01]. Minimal [BF78]. Minimization [OC05].
Minneapolis [HTA+97, IEE92b]. Minnesota [IEE97]. MLFMA [SLC96].
MN [HTA+97, mode [Sat10]. model [CAJ09, ES04, FG96, Ham11, KP08, TD09].
modeling [BCM02, NMDK99, NKV94, ZKL+07]. Models [AC94, HB93, PN95, SGG+04].
modern [NMH06]. Modification [SB98]. Modified [Bar90, BAG00, CHL06].
module [DK93]. Molecular [AC94, BGGT90, BAL91, BHGS90, BP88, CDD97, Gus98, HGS90, LBC91, LBI+97, LMCPP92, MPPA96, OKF14, WLMP99, WS91, ATMK03, BSL11, BWS+95, BSS97, BCL+92, BHE+94, BHER94, BCOY93, BCOY94, BP93, CvHMS94, DK93, EGHT97, GDK89, GKOZ97, KM00, LM02, LWM+02, NKV94, OYK+14, OP07, PGB05, PA14, SWW99, Win95, ZB95].
molecular-dynamics [BCL+92, BP93]. Molecule [Pie93]. molecules [Kan15].
Moment [Gus98, McD97, ZZ93, BN98, CS82]. moment-based [BN98]. Moments
[PNB94, Gib08, HHIKP09, Kon93].
momentum [GY08, WHG96b]. monostatic [RCWY07]. Monotonic [Bor86]. Monte
ESRS01]. Monterey [Ano95b, Ano96, Ano97a]. Montréal [IEE97]. motion [DHM03, Kro01].
Mountain [MC92]. mover [CC13]. MPI [IEE96c, BCA06, LO96b, Per99, SP99].
MPI-2 [BCAD06]. MPSim [LBI+97]. MR [BEM94]. Multi
[AP03, BAD01, Liu08, WSH+12]. multi-disciplinary [WSH+12].
multi-domain [Liu08]. Multi-level [AP03]. multi-platform [BAD01]. Multibody
[BGI+99, JBL02, LOG12].
Multicomputers [YB01]. Multicore
[HEGH14]. Multidimensional [CK95b, BCP08, BL98]. multigrid
[Gas97, IHM05, MC92, OF08]. Multilevel
[CSMCxx, GS98, MG11, SLC96, SLC97, TCW08, TC09, A+97, ATR+12, BDMN03b, DM12, EG08, EG09a, EG09b, Erg11, EG13, GDCDC08, GKD09, HS08, HC10, LZL04, LC94, MG07, MG09, RCWY07, Sar03, WJYO06, YRGS13]. Multiple [BS93, BSS97, FLZB97a, FLZB97b, KM00, Kro02].
multiplication [XWT09]. multiply
[GGM93]. multipoint [PRT92].
Multipolar [LS93]. Multipole
[And92, BT03, BPT+14, Ber95, BVW96, BV96b, BS00, BL05, BFO99, Boy92b, CDM98, CDS03, CDS05, CL12, CD13, CSMCxx, CKE08, CS98b, CC10, CC12, CJ05, CCF01, CKB11, DDL13, DY98, EB96, EMRV92, FL13, GP93, GSS09a, GSS06, GR97, GHR98, GW98, Gue97, GD03, GA96a, GA96b, Gus98, GS98, HOST95, HAS02, HEGH14, JMC97, JBMC98, Kon93, KLZ+06, KK95, Le 97, Lea92, Len98, LCD14, Lin95, LSCM96, LJ96b, LJ96a, LO96a, LCP93, LRW95, MI96, MBS+00, MG11, McD97, McK96, MPPA96, NT96, Nilo4, NPR93, OC05, Pan95, PN94, RRR05, RKGM12, RW94, SRP06, SPS96, SL91, SL97b, Sch94, SG97, SHMC97, SMC97, SHHG93, SHT+95, SC94, SC95, SLC96, SLC97, Sta95a, SP01, WC94a, WC94b, WLMP99, YR99, YB01, ZJ91, ZZ93, AHLP93].
multipole
[AGR88a, AGR88b, AP99, AP00, AP03, Ami00, ATMK03, ATR+12, BDMN03a, BDMN03b, BS00, BG97, BWS+95, BV96a, BSS97, BCL+92, BHE+94, BHER94, BL98, BH03, BHGR04, BHGR05, BSS96a, BSS96b, BK96, CDJ07, CC04, CC05, Car09, CGR88, CSA95, CWGH97, CDF01, CCZ97, CWK08, CCLK09, CGR99, CCG+06b,
CRG01, CPP93, CS82, CWD08, CRW93, CFR08, CB09, Dac06, Dac09, Dac10, Dar02, DM07, DM12, Dar07, Dar00a, Dar00b, DH04a, DH04b, DC07, DRS96, DKG92a, DKG92c, ESR01, ES04, EB94, Eng11, EG08, EG09a, Erg11, EG13, EG01, FOC096, FLZB97a, FLZB97b, FPG05, FD09, Fuj98, GDDC08, Gas97, GBMN06, GF06b, GF06a, Gav11, GSC01, GIS98, GY08, GR02, GROZ04, GKD09, GE13, GB11, GR88b, GG89, GG90, GH02, GD05, GD06, multipole-accelerated [BHE+94, BHER94, ZD05].

Multipole-Based
[GSS98a, GSS00, YB01, LDB96].
multipole-to-local [CFR08].

Multiwavelet [FBHJ04].

Napa [PA02].
natural [AO10].
Near [Bor86, CAJ09, ON09a, Rei99].
near-rigid [CAJ09].
Nearest [CK95b].
Neighbor [Bor86].
Neighbors [CK95b].
Neptune [MKFD02].
network [LB91].
New-version-fast-multipole-method [LCM07].
Newport [IEE95].
News [Kan15].
NH [Mak93].
node [FRE+08].
Non [BB87, BCP08, DR95].
non-equispaced [DR95].
non-standard [BCP08].
Non-Uniform [BB87].
nonbonded [ATMK03].
nonequispaced [PSN04].
nonlinear [CAJ09].
nonlinearly [CC13].
nonoscillatory [GR02].
nonplanar [YB97].
nonsmooth [Beb06].
Nose [BVW96].
Notre [IEE96c].
November [ACM96, ACM97, ACM99, ACM03, Hol12, IE90, IE92b, IE93, IE94c, IE02, K+96, LCK11].
nuclear [PGB05].
numbers [GYW05].
numerica [Ise97].
Numerical [CL91, GZ07, Kro02, Pri94, TDEE11, dCGQS06, Atk97, BCM02, BCH93, CDF10, CG97, CHJN03, Dar00b, CG+99, Gre90b, GM94, GH98, KSC99, Kro01, OR89, PRT92, RSS96, TYNO12, ERT12].
HM95, HNO06, KS98a, KS98b, KS04, LDB96, LCZ07, NN12, ON08a, ON08b, ON09a, ON09b, PG96b, SHT03, Sin95, YB97.


Potentials [CJ05, McK96, Pie93, DM90, LDB96, SH07]. power [PRT92]. PPPM [YF05, ZB14]. Practical [BN97, Pan95, CAJ90, MK93]. practice [CK00]. Prager [LGG +13]. pragmatic [SB96]. Precise [Ami00]. preconditioned [BGGC06, GD07a].

Preconditioner [CDGS03, CDGS05, Car06, DDL13, Of08]. Preconditioners [MG11, ABD04, Car09]. Preconditioning [NN12, Beb06, FPG05, LZL04, MG07, MG09, RCWY07]. predictor [TWY06]. predictor-corrector [TWY06]. preeminent [YB12]. preprocessed [SK04]. Prescription [GS98, CRW93]. presented [Ano97b]. pressure [YRGS13]. Price [WSB +97]. Price/performance [WSB +97]. Princeton [HM86]. Principles [OKF14]. Pro [WSB +97]. Problem [APG94, AGPS98, Ano94a, Ano94c, Dem95, Dem96a, Dem96b, HTG02, MTE09, CCKL09, DH86, DCM03, Gre90b, ICM05, Kat89, KS98a, Mil08, SSF96, TL14, WXQL08]. Problems [BB87, EMR92, GA96b, KK95, LJ96b, LJ96a, MG11, SWW94, SG97, AP00, AD05, ATR +12, BSL09, Bes00, BCP08, BHGR04, BHGR05, BGGC06, CC04, CC05, Car09, EG08, EG09a, Erg11, FST05, Fu98, GDDC08, GLS06, HM95, HN006, HK97, JH08, Lab98, Lin95, Liu08, MIES90, OK96, ON08a, ON08b, ON09b, Rah96, RO04, SCM +90, TWY06, WY07b, WSWL95, WXY +08, XJM08, iYNK02, ZY05]. Proceedings [ACM96, ACM97, AG88, ERT12, Hol12, HMS6, IEE02, Kar95, LCK11, Rod89, Ano92, Ano95a, IEE92a, IEE98, KK88, PA02, We91, B +95, BGPW00, HB03, HTA +07, IEE90, IEE92b, IEE93, IEE94b, IEE94c, IEE96b]. Proceedings. [IEE96c]. processes [Sal96]. processing [B +95, HTA +07, BCOY94, Rod89]. Processor [WWF02, FL13, MHI07]. processors [GD08]. produced [Kon93]. products [And08]. Professor [Wil00]. Program [CD097, YB01, App85, LBI +97, WS95b, Win95]. Programmable [PA02, HFKM98]. programming [MRH14]. Programs [BGLM05, RC97]. PROGRAPE [HFKM98]. PROGRAPE-1 [HFKM98]. Progress [Ano95b, Ano96, Ano97a]. Prolate [KLZ +06]. Propagation [Ano97b, IEE94a, IEE95, IEE96a, IEE97].
WC94a, WC94b, CHJN03, GLS06].
propagator [ZB95]. properties [WY05, WY07a]. Protein [NT96, Kan15, KSS10, KS11, NT94].
Purpose [Ano94a, BGGT90, CKE08, FM96, FHM99, KFMT00, MTES94, MT98, MFKN03, EIM+92, EFT+93, FMI+93, FM95, HFKM98, KMT94, MIES90, MT95, OMH+94, OME+92, SCM+90, TMES94].
Quantum [SPS96, KLM+09, SSF96]. quartic [WHG96b]. quasars [SWJ+05].
Queen [IEE97]. Radar [Gue97, Ano97b, Ano97b]. Radial [Buh03, BLA05, BL97, BN98, BCR01, CBN02, GD07a, PSN04, Yin06]. Radiation [CSCMxx, SG97, CKW08, YRG13].
Radiosity [SHT+95, HSA91, MNNB06]. Radome [BVW96]. random [CG97, ERS01, ST06]. Range [Pie93, AO10, BAL91, BDS07, BP93, Ess95, KMC09]. range-limited [BDS07]. ranged [BPK85]. rank [HW11]. Rapid [Gre87, KLZ+96, Rok85, Rok90, BH03, EGHT97, Gre88, Gr88a, HSA91, PJY95]. Ray [WC94a, WC94b]. Ray-Propagation [WC94b]. RCS [BVW96, BV96b, BV96a, Gue97, RCW07].
reactions [NMDK99]. reaction [DC07]. ready [BAD01]. real [MKF01, SH07].
realistic [NVK94]. Recurrence [CSA95]. Recursions [GD03]. Red [WSB+97].
Revisiting [KSO4]. Rigid [BT95, JBL02, CAJ09, HNO06].
rigid-inclusion [HNO06]. rigorous [SKPF95]. Ring [BHGS90]. Rockefeller [IEE90]. Rokhlin [HM95, HS08, SB98].
Rome [MBA97]. Root [GGM01]. Rotating [WHG96b]. Rotation [GD03, Dac06].
Rotne [LL+12]. Rough [JMC97, JMBC98, ERS01, JBMC98].
SAI [MG09]. Salt [Hol12]. San [ACM97, B+95, Kar95]. Santa [Ful97].
Scalability [RS97]. Scalable [Ano94b, BHE+94, BHER94, GKS94, GKS98, HAS02, HGD11, IEE94b, MSV92, OCK+03, OKF14, YB12]. scalar [GD07b, KSC99]. Scale [BAGD00, OKF14, SRF06, WLMP99, ZQSW94, ATR+12, EG08, Erg11, EG13, FLZB97a, FLZB97b, GF06b, GF06a, KP08, LCZ07, LWM+02, PN95, WY05, WY07a, WSH+12, XYZ+08].
Scaling [CDCD97, FERE+08, YBNY12, Goe99, KLM+09, SSF96, WJGH96b].
Scatterers [HOST95]. Scattering [BVW96, EMRV92, GA96a, GA96b, HAS02, JMC97, JMBC98, LJ96b, LJ96a, SHMC97, SMC97, SLC97, ZCG00, AP99, AP00, AD05,
BN07, BGGC06, CC04, CC05, Car09, 
CWK08, DH04a, ESR01, EG08, EG09a, 
Fuji98, GH08, GSC01, GD05, HC10, HW10, 
JBM98, Lab98, LC94, MG07, Rah96, 
RTZ+96, Roz90, SM97, SHM98, TCW08, 
TC09, WJYO06. scheduling [YF98]. 
scheduling [NMDK99, NMH06, WLL+07]. 
Schrödinger [ZKL+07]. Schur [MG11]. 
Scientific [BEM94]. Science [FHM99, IEE92a]. 
sciences [SM05]. Scientific [B+95, HTA+97, MT98, Rod89]. 
Screened [BFO99, GH02, HJZ09, ZHPS10]. 
Seattle [IEE94a, LCK11]. Second 
Section [Gue97]. seismic [Fuj98]. self 
[TYON12]. self-gravitating [TYON12]. 
Seminar [RSS96]. semiseparable [CG04]. 
sensitivity [DH86]. Sensor [Ano97b]. separated 
[Eng11]. September [Ano95a]. 
Seventh [B+95]. Sham [DSSF96b]. shape 
[LM02]. shaped [YRGS13]. shared 
[HS95, RC97, Ske99]. shared-memory 
[Ske99]. sharing [BADF96]. shells [CAJ09]. 
short [BG97, BF93]. short-range [BF93]. 
shunt [SGD+04]. SIAM 
[B+95, BEM94, HTA+97, RSH96, Rod89]. 
Sides [BT03]. signature [Ano97b]. 
Siloxane [MPPA96]. Siloxane-Based 
[MPPA96]. SIMD [TYON12, TYNO12]. 
simple [AB95, PJY95]. Simulating 
[ZGI+10, VGZB90, ZB95]. Simulation 
[AT87, And99, BADG00, CKS91, FM96, 
HE88, KFM99, LCE+06, MI96, Ten98, 
WPM+05, AGR88a, App85, BCM02, 
BAAD+97, BCL+92, DRS96, FLZB97a, 
FLZB97b, FMI+93, FM95, GF06b, GKZ07, 
HN10, HGZ90, KMT94, LM12, LWM+02, 
MI95, MFK00, MKFD02, MD12, OYK+14, 
OMC08, PG94, SWW99, Spr05, TYON12, 
TYNO12, WYW05, Win95, YB97, YNS+09, 
YBNY13]. Simulations 
[Aar85, AAL+01, Ano94b, ADBGP99, 
Bag02, BHGS90, BH88, GP93, GKS94, 
HP95, IFM09, KFMT00, LR1+99, MT98, 
MFKN03, MPPA96, OF14, SRPD06, 
SWJ+95, WLMP99, WN14, YF05, AGR88b, 
ATMK03, AB95, BAL91, BDS07, BCOY93, 
BCOY94, CL91, CGR88, CWD08, CB09, 
DKG92a, EIM+92, EFT+93, EGHT97, 
ESRS01, FOCB96, FRE+08, GF06a, GKS98, 
GR87, GFK98, HKM98, HNY+09, KM00, 
K+96, Kro99, KP08, LBC91, LMK02, MT95, 
MG05, MMC99, OME+92, PA14, Sal96, 
Sha06, SKT93, SKT94, TMES94, VCM00, 
WS92, WSH+12, Xue98]. simulator 
[BESL12]. Sinc [Boy92a]. Single 
[CJ05, GP08]. Singular [FBHJ04, RTA+08]. 
singularities [Pel98]. sized [Sat10]. sizes 
[LZC07]. Skeletons [SW94]. Slater 
[Gus98, ZZ93]. Slater-Type [Gus98, ZZ93]. 
slightly [ZD05]. Society 
[IEE95, IEE96a, IEE97]. Software 
[Kan15, TDBEE11, TYNO12]. solid 
[Bat03, PJY96, WL96, hYtWbWL08]. solids 
[WYW05]. Solution 
[ATR+12, GA96a, LJJ96b, LJJ96a, SG97, 
SC94, SC95, ACHLP93, AP03, AD05, Atk97, 
BH03, BHGR04, BHGR05, CJL+97, EG08, 
EG09a, FLZB97a, FLZB97b, GDDC08, 
Gas97, GLS06, Gre90b, HW10, PN95, Rok85, 
Rok90, WFC08, WSWL95, YSM05, ZC00]. 
Solutions [Erg11, HC10, KS11]. solvation 
[FNM11]. Solved [MG11]. solvent [DC07]. 
Solvers [BOX00, MGM95, SLCL98a, 
SLCL98b, Xa95, BME90, CCM79, CHL06, 
EG01, GL96, GP08, HLL08, Kan15, L198, 
LCHM10, LCHM13, SRK+12]. Solvers 
[GS98b, BME93, BEM94]. Solving 
[HTG02, VTC91, Car06, Car07, LC93, LC94, 
MCCB07, MMNB06, OLL04, XJM08, 
ZCL+98]. some [Sha06]. sound [CAJ09]. 
Source [SB98, CBK11]. Space 
[BT95, YF98, BSL09, BKM09, CB14, 
GSC01, HM95, HS95, SRK+12]. space-time
[SRK+12]. **Space/time** [YF98]. **Space/time-efficient** [YF98]. **Spaces** [BF78]. **Spanning** [BF78]. **Sparse**
[gos99, lzl04, Rok98, Tau03a, LOSZ07a, MG09, RSZ09, TW03]. **sparse-approximate-inverse** [MG09]. **Spatial** [BT95, BLa05, CvHMS94, ZT07]. **Special**
[ano94a, BGGT90, CKM09, FHM99, KFM00, MTE594, MT98, MFKN03, EIM+92, FTM+93, FM95, HFKM98, KMT94, MIES90, MT95, OMH+94, OME+92, SCM+90, TME594, MC92]. **Special-Purpose**
[ano94a, BGGT90, CKM09, FHM99, KFM00, MTE594, MT98, MFKN03, EIM+92, FTM+93, FM95, HFKM98, KMT94, MIES90, MT95, OMH+94, OME+92, SCM+90, TME594]. **spectra** [ES04]. **Spectral** [RCWY07, OFH+08, PN95]. **speeding** [AO10]. **sphere** [BP03, CDJ07, DC07, Lin95]. **spheres** [GD05]. **spherical**
[GODZ10, KSC99, PJSY96, ST02, YR98]. **Spline** [CS98b, DKG92b]. **Splines** [CS98a, BL97, BCR01, BPT07]. **Square** [GMG01]. **Stability** [Nil04, Sud04]. **stable** [BCP08]. **static** [VOD08]. **Station** [ERT12]. **statistical** [Kan15]. **Steepest**
[JMC97, JMB598, ERS01]. **Steepest-descent** [ERS01]. **Stellar** [HM86]. **Step** [BS93, FLZ597a, FLZ597b, KM00, RCWY07]. **stepping** [BS597].
**stochastic** [FST05, Sa96]. **Stokes** [GKM96, GKO4, Tau03a, TG08, WLL+07]. **Stokesian** [Ich02]. **Storage** [Hol12, LCK11]. **Strategy** [BB87, BCOY93, EG90b]. **stratified** [ZCL+98]. **Strips** [GAS96a]. **strong** [KAN15]. **Structural** [BPK85]. **Structure**
[BADG00, NT96, ZQSW94, GF06b, GF06a, Goe99, Kat89, KS98a, NT94]. **Structures**
[And99, CSMCxx, GGM01, MI96, RW94, WPM+02, Car09, CWK08, EG13, LCZ07, WS92, ZCL+98, ZY05]. **studies** [RTZ+96]. **Study** [BGLM05, HM86, PR94, Dar97]. **studying** [Kro01]. **sub** [LCZ07]. **sub-entire-domain** [LCZ07]. **Subdivision** [BT95]. **Summation** [CWA14, LS93, AM00, BAL91, HMM05, ZB14]. **Summer** [RSS96]. **Sums**
[DNS90, BG94, DYP93, KS04, RO04, SL97b]. **Sunnyvale** [We91]. **Supercomputers**
[FQG+92, HM86, BAD01]. **Supercomputing**
[ACM96, Ano92, IEE90, IEE92b, IEE93, IEE94c, Kar95, Ano92, KK88]. **Surface**
[MG11, CCZ97, ERS01]. **Surfaces** [CSM00, HAS02, JMC97, JMC98, GH08, JBT98]. **Surfaces-Wire** [CSM00]. **suspended** [VGZ09]. **switch** [SGD+04]. **Symbolic** [Pie93]. **symmetric**
[CG04, OSW06a]. **Symposium** [Ano97b, HB93, IEE92a, IEE94a, IEE95, IEE96a, IEE96b, IEE97, PA02, K+96, Mak93]. **Syracuse** [IEE96b]. **System**
[BGI+99, RKM12, BAA5+97, TME594, ZB95, HTG02]. **Systems** [GP93, Gre87, HEGH14, MT98, VTG91, YF05, AB95, BWS+95, BGGC06, CL91, CDF10, CFH89, DYP93, DKG92c, EIM+92, EFT+93, Gre88, Ich02, KS98a, KS98b, KN95, LM02, LB92a, LBI+97, LCM07, LCH10, LCH13, PGB05, PG96b, TYON12, YB12, ZB95]. **Systolic**
[BHGS90, DHM03]. **T3D** [BAAD+97]. **tails** [ADG96]. **tangential** [GH08]. **Target** [SB98, GSC01]. **targets** [Ano97b]. **tearing**
[LS05, LOSZ07a, LOSZ07b, OSW06b]. **technique** [Gas97, KLM+09]. **Techniques**
[CDGS03, CDGS05, PRT92, SWW99]. **Telescoping** [LRW95]. **Template**
[BGLM05]. **Tennessee** [IEE94b]. **tensor** [CB14, CSA95, HC08, LGG+13]. **Tensors**
[PBN94]. **Terabytes** [IEE02]. **teraFLOPS** [TME594]. **Term** [DNS90]. **terms** [JP89].
test [AB95]. Tlflow [ANO94a, HNY+09, HN10, MTES94, MFK00, MKF01, MKFD02]. theorem [KSC99, Lab98]. theorems [HC08]. theory [AP99, Buh03, CK00, GD07b, K+96, Peln98, Rok85, Rok90, Tau03a]. thermodynamics [Kan15]. Thin [ZCL+98, CAJ09, ZY05]. Thin-stratiﬁed [ZCL+98]. Third [KK88, Rod89, Bha97]. Thousands [BT03]. Three [CS98a, JMBC98, LO96a, Nil04, Pie93, Pri94, SL91, SC95, WSW95, YB97, BSL09, BPT07, CWK08, CGR99, CCG+06b, ESR01, ES04, ESM98, GR88a, GR97, GH02, GD06, GD09, LB92b, MCBB07, OLLL03, PSS95, SL97a, Tak14, TC09, TG08, WSLW95, YBZ04]. Three-Body [Pie93]. Three-Dimensional [JMBC98, Pri94, WSW95, YB97, BSL09, CWK08, ESR01, ES04, ESM98, OLLL03, PSS95, Tak14, TC09, TG08, WSLW95]. tiers [WHG96a]. Time [BS93, MD98, BSS97, FLZB07a, FLZB07b, GD07b, KM00, OFH+08, RC97, SRK+12, WV02, Xue98]. Time-dependent [MD98]. time-harmonic [GD07b]. time-step [KM00]. Top [DS00, MBS+00]. topological [BN07]. toroidal [CKS91]. Toronto [HB93]. Touchstone [FQG+92]. TPM [Xu95]. trained [HHKP09]. transfer [GD0210, KMC09]. Transform [EB06, EB94, GS91, HLL08, HW11, LHL08, OLLL03, OLL04, Sar03, ST02, Sud04, Boy92b, EMT99]. Transformation [DNS90]. transforms [DR95]. transient [ESM98]. Translation [GD03, ESM98, GD07b, Rah96, Rok98]. translator [HS08]. transpose [JH08]. Transputer [Wel91, CKS91, LB91]. Transputers [BHGS90]. Transputing [Wel91]. treatment [KS98a]. Tree [And99, ADB94, ADBG99, BH89, Bar90, BADG00, BOX00, BH88, CDM98, CWA14, SWW94, WPM+02, WS93, WN14, WSW+95, BADP96, BAAD+97, BAD01, BCAD06, BJWS96, Dub96, GY08, JP89, PD89, PG94, PG96a, WS92, WSWL95, WSH+12, Xue98, JKCGJ08]. Tree-Code [CDM98]. Treecode [KFM99, Mak04, SW94, DKPH04, WS95a, WSB+97]. Treecodes [GSS98a, GSS00]. TreePM [Bag02, IFM09, YF05]. Trees [BF78]. trenches [TCW08]. trends [Car09, CGL03, Les96]. triangulated [RS94]. Truly [APG94, An094c]. truncated [TCW08]. truncating [BPK85]. Truncation [OC03, AP00, AB95, CC04, CC05]. tube [Lin95]. tumors [ES04]. tuned [YB12]. tuning [MKF01, NMH06]. turbulence [HNY+09, YNS+09, YBNY13]. Turkey [An097]. Two [LS93, McK96, Pan95, Pie93, RRR05, BL97, Car06, CHL06, CCG+06a, CC10, CC12, ECL02, EG01, GH98, JKCGJ08, Kro01, NT09, PSS95, RRR03, Rok90, Rok98, RCWY07, SKPP95, WY07b, XJM08, YBZ04]. Two-Center [Pan95]. two-component [JKCGJ08]. Two-Dimensional [LS93, BL97, CC10, CC12, ECL02, GH98, Kro01, NT09, PSS95, RRR03, WY07b, XJM08]. two-grid [Car06]. two-step [RCWY07]. Type [Gus98, ZZ93].

REFERENCES

MPPA96, Per99, SG97, SHMC97, SMC97, SP99, SC94, BV96a, Bor86, BH88, CKS91, CvHMS94, DM07, ESRB01, ES04, ESM98, Gas97, GF06b, GF06a, GD05, HC10, Kan15, KM00, LB91, LS95, LCZ07, LWM02, MI95, MRH14, OYK14, Pri94, RC97, Sat10, Sy103, Tan03a, WY07a, WS92, WSL95, YB97, YBK11, YBY13, ZCG00]

Who [Wil00]. wide [KMC09]. wideband [CCG06a, CCG06b, NT09, CC10, CC12].
Wigner [dac06]. WINE [FMJ93].
WINE-1 [FMJ93]. Winter [ERT12].
Wire [CSMxx]. without
[ADG96, And92, HP95, Mak99, Pel98].
Wood [ON09a]. Worcester [BR93]. work
[BAVP96, DTM96, Rei99]. work- [BAVP96].
Workshop [ERT12, HM86, AG88].
workstations [LJ98]. World [We91].
WOTUG [We91]. Would [Wil00].

X [Ful97]. X10 [MRH14]. x86 [TYON12, TYNO12]. x86_64 [NMH06].
XV [BR93]. XXVI [Bre04].

Yamakawa [LGJ13]. York [IEE90, IEE90, IEE96].
Yukawa [BFO99, HJZ09, ZHPS10].

zero [ZC00]. Zonal [BDS07].

References


M. Amor, F. Argüello,

Angyan:1994:CAM


ACM:1996:SCP


ACM:1997:SHP

REFERENCES


Antonuccio-Delogu:1994:PTB

Antonuccio-Delogu:1999:PTB
Antonuccio-Delogu:1999:PTB

Adamson:1996:CCT

Anandakrishnan:2011:GBA
REFERENCES

CODEN JCTCCE. ISSN 1549-9618 (print), 1549-9626 (electronic).

Anderson:1988:VMP


Aluru:1998:DIH


Ambrosiano:1988:FMM


Aluru:1994:DIH

Srinivas Aluru. Distribution-Independent Hierarchical N-body Methods (Greengard Method). Ph.d. thesis, Iowa State University, Ames, IA,

Ambrosiano:1988:GPS


Allen:1993:GIM


Alu94
REFERENCES


Aluru:1996:GBA

Amisaki:2000:PEE

Anderson:1992:IFM

Andjelic:2008:BON

Anonymous:1990:RUM

REFERENCES


[Ano97a] Anonymous, editor. Progress in applied computational electromagnetics: Annual review;
REFERENCES


Anonymous:1997:RSA


Anandakrishnan:2010:ABN


Amini:1999:ADF


Amini:2000:ATE


Amini:2003:MLF

Aluru:1994:TDI


Appel:1985:EPM


Alpert:1991:FAE


Allen:1987:CSL


Atkinson:1997:NSB


Amisaki:2003:DHA


Araujo:2012:SLS

REFERENCES


Ying:1997:VM


Bailey:1995:PSS


Becciani:1997:PTC


Becciani:2001:YRF


Becciani:2000:MPT


Becciani:1996:WDS

REFERENCES

Bagla:2002:TCC


Belhadj:1991:MDS


Barnes:1986:USS


Barnes:1990:MTC


Becciani:2006:FMP


Beale:1993:VFR


REFERENCES

CODEN SJMAAH. ISSN 0036-1410 (print), 1095-7154 (electronic).


[Bes00] A. N. Bespalov. On the use of a regular grid for imple-
Bentley:1978:FAC


Boschitsch:1999:FAM


Beatson:1997:SCF

Rick Beatson and Leslie Greengard. A short course on fast multipole methods. In Ainsworth et al. [A+97], pages 1–37. ISBN 0-19-850190-0. LCCN QA374 .W38 1997. The Seventh EPSRC Numerical Analysis Summer School was held at the University of Leicester during the summer of 1996, from the 8th to the 19th of July.

Bunse-Gerstner:2006:PGC


Bakker:1990:SPC

REFERENCES


[BH86] J. E. Barnes and P. Hut. A hierarchical $O(N\log N)$ force-calculation algorithm. *Nature*, 324(6270):446–449, ???. 1986. CODEN NATUAS. ISSN 0028-0836 (print), 1476-4687 (electronic). This paper appears to be the origin of fast multipole algorithms; its $O(N\log N)$ complexity was later improved to $O(N)$ [GR87]. See also [App85], which might predate this work.


**Bhatt:1997:PA**


**Board:1994:SVM**


**Board:1994:SIM**


**Baca:2004:FMB**


**Buchau:2005:FMM**


**Boehnke:1990:MDS**


**Buchau:2004:FEB**

REFERENCES


Brunet:1993:HAD


Blelloch:1997:PCB


Beatson:1998:FER


Bonnet:2007:FBT


Boris:1986:VNN


Bode:2000:TPM

REFERENCES


Benson:2014:PDF


Brennia:1993:BEX


Brennia:2004:BEX


Brennia:2004:BEX


Blackston:1997:HPE


Board:2000:FMA

REFERENCES

Bapat:2009:AFM


Bannerman:2011:DFG


Bishop:1997:DMT


Buran:1996:AEG


Buran:1996:KSA


Barnett:1994:ICC


Bandi:1995:ASS

REFERENCES


REFERENCES

Carpentieri:2006:MFT


Carpentieri:2007:PAP


Carpentieri:2009:APF


Cruz:2009:CAF


Chaillat:2014:NFM


Cherrie:2002:FER


Carayol:2004:EEF


Chen:2009:ADI


Chen:1997:FMM


Cecka:2013:FBF


Crowley:1997:AIS


Chartier:2010:RFM


Carpentieri:2003:CFM

Carpentieri:2005:CFM


Cai:2007:EFM


Capuzzo-Dolcetta:1998:CBF


Cichocki:1989:EIP


Coulaud:2008:HPB


Coulaud:2010:HPB


Cheng:1997:NEE

REFERENCES

Chandrasekaran:2004:DCA


Chen:2003:CTS


Carrier:1988:FAM


Cheng:1999:FAM


Cohen:2003:MNA


Cheng:2006:AFS


Chowdhury:2005:SLM

Indranil Chowdhury and Vikram Jandhyala. Single level multipole expansions and operators for potentials of the form $r^{-\lambda}$. SIAM
REFERENCES


Nguyen Hai Chau, Atsushi Kawai, and Toshikazu
REFERENCES


Chynoweth:1991:SOL


Caillol:1991:NSH


Cecka:2012:FMM


Coifman:2006:DW


Christiansen:1993:FMM


Choi:2001:NPO

Coifman:1993:FMM


Cipriani:1982:CEE


Chen:1998:FEV


Chen:1998:UFM


Challacombe:1995:RRC


Chao:19xx:MFM


Clark:1994:PMD


Chen:2014:FST

Cocle:2008:CVC

Challacombe:1997:PBC

Chen:2008:FFM

Dachsel:2006:FAD

Dachsel:2009:ECF

Dachsel:2010:CAE
REFERENCES

Darve:1997:FMM


Darve:2000:FMMa


Darve:2000:FMMb


Darrigrand:2002:CFM


Deng:2007:EFM


deCastro:2006:NMA


Draghicescu:1995:FA


Darbas:2013:CAP

REFERENCES


[DH04b] Eric Darve and Pascal Havé. A fast multipole method for Maxwell equations sta-


REFERENCES


REFERENCES

Jeremy P. Dombroski, Stephen W. Taylor, and Peter M. W. Gill.


REFERENCES

ISSN 0192-8651 (print), 1096-987X (electronic).


El-Shenawee:2004:RSM


Ergin:1998:FET


El-Shenawee:2001:MCS


Esselink:1995:CAL


Fann:2004:SOM


Fong:2009:BBF


Franklin:1996:GMI

Mark A. Franklin and Vasudha Govindan. A general matrix iterative model


[Fenley:1996:FAM] Marcia O. Fenley, Wilma K. Olson, Kiat Chua, and
REFERENCES


REFERENCES


Gavrilyuk:2011:BRF


Gramada:2011:CGE


Gatard:2006:HOB

L. Gatard, A. Bachelot, and K. Mer-Nkonga. High order boundary integral methods for Maxwell’s equations: coupling of microlocal discretiza-


Giovannini:1999:FRN


Gumerov:2003:RCM


Gumerov:2005:CSC

REFERENCES

**Gumerov:2006:FMM**


**Gumerov:2007:FRB**


**Gumerov:2007:SPF**


**Gumerov:2008:FMM**


**Gumerov:2009:BFM**


**Garcia:2008:ISE**


**Grest:1989:VLC**


**Goude:2013:AFM**


Leslie Greengard and Johan Helsing. On the nu-
merical evaluation of elasto-
static fields in locally isotropic
two-dimensional composites. *Journal of the mechanics
JMPSA8. ISSN 0022-5096.

**Greengard:2002:NVF**


**Greengard:1998:AFM**


**Gibson:2008:MME**


**Gerchikov:1998:EMP**


**Greengard:2004:IEM**


**Ginste:2009:ECP**

[GKD09] Dries Vande Ginste, Luc Knockaert, and Daniel De Zutter. Error control in the perfectly matched layer based


REFERENCES

Greengard:1994:NEE


Gumerov:2010:CHR


Greengard:1987:FAP

This paper is credited as the origin of the fast multipole method, with an $O(N)$ algorithm. It was reprinted in the same journal, vol. 135, pp. 280–292, August 1997.

**Greengard:1988:REPb**


**Greengard:1988:EIF**


**Greengard:1997:NVF**


**Gimbutas:2002:GFM**


**Greengard:1987:REP**


**Greengard:1988:REPb**


**Greengard:1990:PFC**


**Greengard:1990:NSB**

REFERENCES


on Multigrid Methods, Colorado, April 1991.


REFERENCES


REFERENCES


REFERENCES


Hollingsworth:2012:SPI

Hamilton:1995:FMM

Hendrickson:1995:PMB

Hrycak:1998:IFM

Holt:1995:HBM

Hanninen:2008:EER

Hanrahan:1991:RHR
REFERENCES


Heath:1997:PES


Ho:2002:SBP


Hoyler:1997:FMM


Hesford:2010:FMM


Hesford:2011:RRA

REFERENCES

Yao:2008:IFM


Ichiki:2002:ISD


IEEE:1990:PSN


IEEE:1992:ASF


IEEE:1992:PSM


IEEE:1993:PSP

IEEE:1994:IAP


IEEE:1994:PSH


IEEE:1996:IAP

IEEE:1996:PFI


IEEE:1996:PSM


IEEE:1997:IAP


IEEE:1998:FIC


IEEE:2002:STI

Ishiyama:2009:GMP


Izaguirre:2005:PMS


Iserles:1997:AN


Yoshida:2002:NFM


Jaramillo-Botero:2002:UFM


Jandhyala:1998:FAA


Jiang:2004:NCE


**References**


REFERENCES


[KM00] Masaaki Kawata and Masuhiro Mikami. Computationally efficient canonical molecular dynamics simulations by using a multiple time-step integrator algorithm combined with the particle mesh Ewald method and with the fast multipole method. *Journal of...*
Kreuzer:2009:FMB


Kokubo:1994:HSP


Kutteh:1995:ICM


Kondratyev:1993:MME


Kurzak:2005:COF


Kurzak:2005:MPI

REFERENCES

Kurzak:2008:MPI


Kropinski:1999:IEM


Kropinski:2001:ENM


Kropinski:2002:NMM


Kudin:1998:FMA


Kudin:1998:FMM


Kudin:2004:RIL


Kim:2011:CSV

REFERENCES

related interdisciplinary topics), 83(1 Pt 1):011915, January 2011. CODEN PLEEE8. ISSN 1550-2376.

Koc:1999:EAN


KSS10


Lab98


LBC91


Leathrum:1999:PFM


Leathrum:1992:MAF


Leathrum:1992:PFMb

REFERENCES

Lim:1997:MDV


Lu:1993:FAS


Lu:1994:MAS


Liskal:2014:PFM


Letourneau:2014:CFM


Leimkuhler:2006:NAM


Lu:2010:AAF

Benzhuo Lu, Xiaolin Cheng,


REFERENCES

Lu:2007:AFM


Lambert:1996:MBA


LeRouzo:1997:MEC


Leathrum:1992:PFMa


Lemou:1998:MEF


Lemou:2004:MAF


Leszczynski:1996:CCR


Liang:2013:FMM


REFERENCES


REFERENCES


Langer:2007:IFM


Ly:1999:SPD


Lustig:1995:TFM


Lambin:1993:ESM


Langer:2005:CBF


Lu:1996:AF


Lupo:2002:LSM

James A. Lupo, Zhiqiang Wang, Alan M. McKenney,


Massimiliano Margonari and Marc Bonnet. Fast multipole method applied to elastostatic BEM-FEM coupling.
REFERENCES

Marchetti:1997:ICB

Makino:2000:LEF

Mandel:1992:SIM

McCorquodale:2007:LCA

McDowell:1997:CGM

McKenney:1996:AFM
REFERENCES

Marengo:1998:TDP


Makino:2012:GAG


Makino:2000:TSB


Makino:2003:GMP


Marzouk:2005:MCO


Malas:2007:IPM


Malas:2009:AMF

REFERENCES

2009. CODEN SJOCE3. ISSN 1064-8275 (print), 1095-7197 (electronic).

Malas:2011:SCP

McKenney:1995:FPS

Makino:2007:GDP

MacDonald:1995:FSM

Macdonald:1996:FSM

Makino:1990:GSP
REFERENCES


REFERENCES

8275 (print), 1095-7197 (electronic).

**Milthorpe:2014:PFI**


**Mehrotra:1992:USC**


**Makino:1995:ABS**


**Makino:1998:SSS**


**Makino:1994:GOT**


**Nishida:1997:AFM**


REFERENCES


REFERENCES


REFERENCES

1. Olyslager:2008:FMM

2. Okumura:1992:GHP


4. Otani:2008:FPB

5. Otani:2008:PFM


[OYK14] Yousuke Ohno, Rio Yokota, Hiroshi Koyama, Gentaro Morimoto, Aki Hasegawa, Gen Masumoto, Noriaki Okimoto, Yoshinori Hirano, Huda Ibeid, Tetsu Narumi, and Makoto Taiji. Petascale molecular dy-

**Pocek:2002:FAI**


**Poursina:2014:IFM**


**Pellegrini:1998:EFS**

REFERENCES


Pereira:1999:PBI


Pfalzner:1994:HTC


Pfalzner:1996:MBT


Pollock:1996:CPF


Papa:2005:CMD


Piecuch:1993:MSC

Perez-Jorda:1995:SAR


Perez-Jorda:1996:CRS


Peirce:1995:SMM


Pluta:1994:DHE


Pringle:1994:NST


Pruett:2003:ABA


Pan:1992:PCT

Society Press Order Number 2900.

**Potts:2004:FCR**


**Petersen:1994:VFM**


**Petersen:1995:EEF**


**Rahola:1996:DFT**


**Rajamon:1997:PDS**


**Rui:2007:STS**

P. L. Rui, R. Sh. Chen, D. X. Wang, and E. K-N Yung. Spec-

**References**


REFERENCES

**Rokhlin:1998:SDF**


**Rossi:2006:EBS**


**Ramachandran:2003:FTD**


**Ramachandran:2005:FMM**


**Russo:1994:FTV**


**Rokhlin:1997:SFM**


**Rudberg:2006:EIF**

REFERENCES


REFERENCES

637X (print), 1538-4357 (electronic).

Sarvas:2003:PIA


Sato:2010:AFS


Strickland:1996:POF


Strickland:1998:MCG


Song:1994:FMM


Song:1995:FMM


Schmitt:1994:CDF


Sugimoto:1990:SPC

D. Sugimoto, Y. Chikada, J. Makino, T. Ito, T. Ebisuzaki, and M. Umemura. A special-
REFERENCES


**Sendur:1997:SRP**


**Sabariego:2004:CME**


**Sharp:2006:BSP**


**Singh:1995:IHB**

REFERENCES


REFERENCES

1995. CODEN EJNMEA. ISSN 0928-0200.

Suda:2004:APA


Skeel:1989:MDS


Solvason:1995:RCE


Shimada:1993:ECC


Shimada:1994:PFM


Schmidt:1991:IFM


Schmidt:1997:EIF

K. E. Schmidt and Michael A. Lee. Erratum: Implementing the fast multipole method in three dimensions. *Jour-
REFERENCES


Schmidt:1997:MES


Song:1996:MFM


Song:1997:MFM


Song:1998:FISa


Song:1998:FISb


Shanker:1997:OSI


Simos:2005:ACM


**Shanker:1997:SIC**


**Solvason:1997:EEF**


**Sidonio:1999:PBI**


**Sun:2001:MVF**


**Springel:2005:CSC**


**Scherbinin:1996:UME**


**Speck:2012:MST**

Sagui:2006:NDM


Stalzer:1995:PFMb


Saad:1989:DCH


Schanz:2007:BEA


Suda:2002:FSH


Schwab:2006:KLA


Strain:1996:ALS

REFERENCES

Stalzer:1995:PFMa

Sun:2014:FMR

Suda:2004:SAF

Salmon:1994:STC

Springel:2005:SFE

Salmon:1994:FPT
Schwichtenberg:1999:AMM


Sylvand:2003:CIC


Takahashi:2014:IBF


Tausch:2003:SBP


Tausch:2003:FMM


Tausch:2004:VOF


Tong:2009:MFM

REFERENCES


REFERENCES


REFERENCES


**Windemuth:1991:MDC**


**Warren:1992:ANS**


**Warren:1993:PHO**


**Warren:1995:PPV**


**Warren:1995:PPP**


**Warren:1997:PPI**

REFERENCES

LCCN ???. URL http://
www.supercomp.org/sc97/
proceedings/. ACM SIGARCH
order number 415972. IEEE
Computer Society Press order
number RS00160.

[WSH+12] Mathias Winkel, Robert
Speck, Helge Hübner, Lukas
Arnold, Rolf Krause, and Paul
Gibbon. A massively parallel,
multi-disciplinary Barnes–Hut
tree code for extreme-scale
N-body simulations. Computer
Physics Communications, 183(4):
880–889, April 2012. CODEN
CPHCBZ. ISSN 0010-4655 (print),
www.sciencedirect.com/
science/article/pii/S0010465511004012.

[Wink:2012:MPM] Grégoire S. Winckelmans,
John K. Salmon, Michael S.
Warren, and Anthony Leonard.
The fast solution of three-
dimensional fluid dynamical
N-body problems using parallel
tree codes: vortex element method and boundary element method. In Ba-
ley et al. [B+95], pages xviii + 875.

[WWF02] Michael S. Warren, Eric H.
Weigle, and Wu-Chun Feng.
High-density computing: A
240-processor Beowulf in one
cubic meter. In IEEE [IEE02],
pages xvi + 875. ISBN 0-7695-1524-X.
LCCN ???. URL http://
www.sc-2002.org/
paperpdfs/pap.pap210.pdf.

[WWFL95] Grégory S. Winckelmans,
John K. Salmon, Michael S.
Warren, and Anthony Leonard.
The fast solution of three-
dimensional fluid dynamical
N-body problems using parallel
tree codes: vortex element method and boundary element method. In Ba-
ley et al. [B+95], pages xviii + 875.

John K. Salmon, Michael S.
Warren, and Anthony Leonard.
The fast solution of three-
dimensional fluid dynamical
N-body problems using parallel
tree codes: vortex element method and boundary element method. In Ba-
ley et al. [B+95], pages xviii + 875.

[WWFL95] Grégory S. Winckelmans,
John K. Salmon, Michael S.
Warren, and Anthony Leonard.
The fast solution of three-
dimensional fluid dynamical
N-body problems using parallel
tree codes: vortex element method and boundary element method. In Ba-
ley et al. [B+95], pages xviii + 875.

Xu, Fen Tao Qin, and Jiao
Li. Fast multipole expansion
Pract. Theory, 38(24):
225–228, 2008. ISSN 1000-
0984.

[WY05] Haitao Wang and Zhenhan
Yao. A new fast multipole
boundary element method for
large scale analysis of mechanical
properties in 3D particle-
reinforced composites. CMES
Wang:2007:LSA

Wang:2007:FMB

Wang:2005:FMB

Xue:1998:THT

Xiao:2009:FMV
Xu:2008:FMB


Yeung:1997:TNL


Yuan:2001:PIF


REFERENCES


Yokota:2013:PTS


Ying:2004:KIA


Ying:2003:NPK


Yang:1998:STE


Yoshikawa:2005:PTM


Yang:2001:CPD

REFERENCES

Ying:2006:KIF


Ying:2009:FAB


Yokota:2009:FMM


Yarvin:1999:IFM


Yarvin:1999:GOD

REFERENCES

Zhou:1995:NMD


Zhang:2014:PFS


Zhang:2011:OBH

Junchao Zhang, Babak Behzad, and Marc Snir. Optimizing the Barnes–Hut algorithm in UPC. In Latrope et al. [LCK11], pages 75:1–75:11. ISBN 1-4503-0771-X. LCCN ????

Zhao:2000:IES


Zhao:1998:TSM


Zinchenko:2005:MAA

REFERENCES


[Zhao:2005:FMB]


[ZZ93]