A Selected Bibliography of Publications by, and
about, Graeme W. Milton

Graeme W. Milton
University of Utah
Department of Mathematics, 310 JWB
155 S 1400 E RM 233
Salt Lake City, UT 84112-0090
USA
Tel: +1 801 581 6495
FAX: +1 801 581 4148
E-mail: milton@math.utah.edu
WWW URL: http://www.math.utah.edu/~milton/

24 April 2019
Version 2.02

Title word cross-reference


138 [FM87a].

2-dimensional [MBH17]. 2002 [MGDV03].

3 [MCE17, MCE18]. 3-dimensional [MBH17].

87k [FM87a].
abstract [Mil16c]. accelerated [VM08]. Accelerating [Mil16a]. acoustic [GMOS11, MS07, MS08b, GMOS13]. acoustics [GMO10, GMO11b, MSB08, MSB09]. Active [GMO09a, GMO09b, GMO10, GMO11b, GMO11c, GMS11, GMO12, GMOS13]. actuators [Mil12b, Mil13c]. Adaptable [Mil12b, Mil13c]. Addendum [Mil15a, Mil13b]. adjoint [Mil16h]. algebra [Mil15b, Mil15d, Mil16f]. algorithm [VM08]. almost [MHB16, MHB17]. among [MNBM09]. amplitude [Tar89]. analysis [ACK+11, ACK+12, ACK+13c, ACK+13d, ACK+14, GMO11c, GMS12]. Analytic [Mil16b, Mil16c]. Analytical [SMD86]. Analyticity [CWM15, CM16a]. anisotropic [FM09, KM86, MM95, Mil17b, Smy09]. Anomalous [ACK+13a, ACK+13b, ACK+11, ACK+12, ACK+13c, ACK+13d, ACK+14, MMO+14, MM0+16, MNMP05, MN06b, MNM+08a, MMS+08b, MMOT14, NMMS07, Ml85b]. anti [MS01]. anti-plane [MS01]. antiplane [MM15, MM98, VM05]. Antisymmetric [BM10c]. application [Gra09, Mil11, Mil12a]. applications [KMW12a, Nes98]. approach [CWM16, CM16b]. Approximating [Mil17b]. approximation [MI85a, MI85b]. approximations [BM10a, BM10b, MI84b]. arbitrary [CM94]. Areas [Gra18, MI16g, Sha17]. arising [Ber98]. array [MM87, NM193]. arrays [MMM18]. Assemblages [MI04b, BM10]. associated [MN06b, MNN+08a, MNN+08b, MW10a, MW10b, MI16c]. association [MI15b, MI15d]. Asymptotic [MPM88]. authored [Gra18]. Average [MSM03, MMS03, BM10a, BM10b].

band [MI17a, MI17b, MI03, MI04a]. bands [MMM09]. bars [MI12b, MI12c, MI13c, MI13d]. based [AM89a, BM10a, BM10b, BM11a, BM11b]. behavior [LPP09, MI07b, MI07c]. between [HM14b, HM15a, HM17a, MI94, MF95]. binode [MI12b, MI13c]. binary [Ber09]. Bloch [MMM09]. blow [MM17c]. bodies [BPZ+16, BPZ+17, KM14a, KM14b, MSB08, MSB09, MN11, MI11, MN12, MI12a]. Body [KM13, KKM11, KM12, KKM12, MT13, TM13, TM14a, TM14b, TM15, Wil09]. Book [Gra18, Sha17]. Boundary [KM13, KKM11, KM12, KKM12, MI11, MI12a, MI16j, MO17]. Bounding [MS00, KM86, MI90a, MI11, MI12a]. Bounds [AM89a, AM89b, BM97, BM10d, BM11b, BM11c, CM16c, CM17, Che09, EMLO2, KMW12b, KM12, KKL+13, KM13, KKL+14, KMW14, MM15, MM16a, MM16b, MI180, MI181a, MI181b, MI181c, MI182, MN11, MN12, MT13, MI17c, SM00, TM13, TM15, VM04, BM10a, BM10b, BM185, CM95, FM87b, FM09, GM93, GMB99, KKK11, KKM12, KM14a, KM14b, MI18d, MW10, MPT82, MK88, MB97, MN09, MI11, MI12a, MI18, PTM82a, PTM82b, PTM83, MEM97]. brake [Ano16c]. breakdown [BPZ+16, BPZ+17]. brief [MI90a]. brine [SMD86]. brine-saturated [SMD86]. Broadband [GMO09c, GMO09d, CM16c, CM17]. Bubbly [SM91]. Bulk [AM89b, ACM+96, GM93].
Can [MS02, Mil17d]. Canonical [Mil16d]. cell [SM99]. certain [MM98].
Change [BMN04, BM09b]. characterization [ACG\textsuperscript{+}96, GMO09e, GMO11a, HM15b, HM17b, Mi\textsuperscript{ii}88, Mi\textsuperscript{ii}12c, Mi\textsuperscript{ii}13d, MHB16, MHB17]. characterizing [Mi\textsuperscript{ii}90b]. checkerboards [Mi\textsuperscript{lo}1]. Circuits [MS08a, MS10a, MS09, MS10b]. class [Mi\textsuperscript{ii}04a, SM99]. Classical [Mi\textsuperscript{ii}88]. Classifying [FM86, FM87a]. climbing [Ano16c, HMDB16b, HMDB16a]. CLM [Jas09].
Cloak [CCK\textsuperscript{+}07a, CCK\textsuperscript{+}07b]. Cloaking [GMO09a, GMO09c, MNBM09, MN06a, Mi\textsuperscript{ii}07a, ACK\textsuperscript{+}11, ACK\textsuperscript{+}13c, ACK\textsuperscript{+}13d, ACK\textsuperscript{+}14, CM16c, CM17, GMO09b, GMO09d, GMO10, GMO11b, GMO11c, GMO11, GMO12, MN06b, MBW06, MNN\textsuperscript{+}08a, MMN\textsuperscript{+}08b, MNB07, GMO13]. close [Mi\textsuperscript{ii}92]. closely [MPM88]. closure [CEM05, MN99, MCE17, MCE18].
coated [MS01, NMM93]. coefficient [BM09b]. coherent [Mil85a, Mil85b]. collections [Mi\textsuperscript{ii}15b, Mi\textsuperscript{ii}15d, Mi\textsuperscript{ii}16l]. Columnar [BM10d]. combat [MNBM09]. comparison [MM82]. compatible [MC93]. Complete [GMO09e, GMO11a, Mi\textsuperscript{ii}97b, Mi\textsuperscript{ii}12c, Mi\textsuperscript{ii}13d, ACG\textsuperscript{+}96, GM98a, MHB16, MCE17, MHB17, MCE18]. Complex [KKL\textsuperscript{+}14, EML02, GM93, GMB99, KKL\textsuperscript{+}13, Mi\textsuperscript{ii}80, Mi\textsuperscript{ii}81a, MM95, MB97, Mi\textsuperscript{ii}03, Mi\textsuperscript{ii}04a, MT13, Mi\textsuperscript{ii}15d, Mi\textsuperscript{ii}17c, TM13, TM15]. compliance [GM98b, MCE17, MCE18]. component [CWM16, Mi\textsuperscript{ii}81a, Mi\textsuperscript{ii}81b, Mi\textsuperscript{ii}81c, Mi\textsuperscript{ii}82, MPT82, Mi\textsuperscript{ii}17b]. Composite [KM91a, Mi\textsuperscript{ii}92, Mi\textsuperscript{ii}04b, BM03, BM91, Jas09, MM90, Mi\textsuperscript{ii}80, Mi\textsuperscript{ii}81a, Mi\textsuperscript{ii}81c, Mi\textsuperscript{ii}81d, MSM17, NMM93]. Composites [AM13a, BM97, BM09a, BM10d, Gra18, Mi\textsuperscript{ii}97a, Mi\textsuperscript{ii}97b, Mi\textsuperscript{ii}02, Mi\textsuperscript{ii}16e, Mi\textsuperscript{ii}16g, MNB06, Sha17, AM13b, AM89a, BM10a, BM10b, BM11a, BA88, BA89, BM08, BM11b, BM11c, CWM16, CLM92, Che09, CM95, EM99, GLM93, GM98a, GMS00, Gra09, HMM97, HMM11a, HMM11b, KM14a, KM14b, KM86, MM15, MM16a, MM16b, MM82, Mi\textsuperscript{ii}81b, Mi\textsuperscript{ii}82, MM82, Mi\textsuperscript{ii}84a, MG85, Mi\textsuperscript{ii}86a, Mi\textsuperscript{ii}87a, Mi\textsuperscript{ii}87b, Mi\textsuperscript{ii}88, MK88, Mi\textsuperscript{ii}90a, Mi\textsuperscript{ii}90b, MG90, MS00, MN11, MN12, Mi\textsuperscript{ii}16a, Mi\textsuperscript{ii}17b, Nes98, NMM94, PTM82b, PTM83, SM91, Smy09, VM04, VM05, VM08].
composities [Mi\textsuperscript{ii}84b]. computing [EM99]. Concerning [Mi\textsuperscript{ii}81d]. conditions [GMS00]. conducting [BIT13, BMT14, Che09, FM09, Gra09, MPM88, MS00, Mi\textsuperscript{ii}16a]. conduction [FM87b, GM85, SM91]. Conductivities [AM13a, AM13b]. Conductivity [KKL\textsuperscript{+}14, ACLM88, ACLM89, BMN04, CM94, FM94, KKL\textsuperscript{+}13, KM86, MM82, Mi\textsuperscript{ii}86b, Mi\textsuperscript{ii}88, MG90, MS01, Mi\textsuperscript{ii}01, MT13, Nes98, PTM82a, SK09, TM13, TM15]. Conference [MGDV03]. configurations [NM91].
Conjecture [ACK\textsuperscript{+}09, KM08, ACK\textsuperscript{+}10, Mi\textsuperscript{ii}01, KM08]. Conjectures [Kan09, KM06a, KM06b, MK06]. connections [SK09]. conservation [MO17]. consistent [BM10a, BM10b]. constant [Mi\textsuperscript{ii}80, TM14a, TM14b]. constituents [BM91]. constraint [BM85]. contacting [SK09]. continued [Mi\textsuperscript{ii}87a, Mi\textsuperscript{ii}87b]. Continuum [MF83, MW07, Mi\textsuperscript{ii}07b, Mi\textsuperscript{ii}07c]. Convergence [MSM17]. convex [Mi\textsuperscript{ii}16m]. convexity [Mi\textsuperscript{ii}13a, Mi\textsuperscript{ii}15a]. cooperation [MNBM09]. corrector [BMN04]. correlating [CM95].
Correlation [Mi\textsuperscript{ii}84b, Mi\textsuperscript{ii}84a]. correlations [AM89a]. correspondence
Electromagnetism [Mil07a, MSB08, MSB09]. Ellipsoid [Mil04b, BM03]. ellipsoidal [BM11a]. Engineering [BCS09]. enhance [PKM05a, PKM05b]. entire [MC93]. equalities [MO17]. equation [Mil91, Mil03, Mil16f, Mil16m]. equations [BM91, CWM15, CM16a, GMO09b, MM95, MBW06, Mil16d, Nes98]. Equivalence [KMW12a, CLM92]. Erratum [FM87a]. Eshelby [KM08, ACK+09, KM06a, KM06b, KKM08, Kan09, MK06]. estimates [KM91b]. ETOPIM [MGDV03]. evolution [LPP09]. Exact [BM91, BM92, GM98a, GMS00, Mil97b, MM03, Mil04b, MO17, TM14a, TM14b, Wil09, BM03, Gra09, Jas09, MM81, Mil04a]. examples [HM14a, HM15c, Mil14, Mil15c]. excited [Mil16k]. exotic [Mil85b]. expansion [Ber09]. expansions [MM16b]. Explicit [HM14a, HM15c]. Extending [Mil16g, Gra18, Sha17]. extension [Mil13a, Mil13b, Mil15a]. Extensions [Jas09]. Exterior [GMO09a, GMO09c, GMO10, GMO11b, GMO09b, GMO10, GMOS11, GMO12, GMOS13]. Extraction [MM82]. Extremal [ACK+09, KM91a, ACK+09, GLM93, HM14a, HM14b, HM15c, HM15a, HM15b, HM17a, HM17b].

falls [Ano16c]. fast [EM99]. Faster [MS02]. FFT [Mil16a, VM08]. fiber [Gra09]. fiber-reinforced [Gra09]. Fiction [MN06a]. Field [BM10d, MM17c, MM17a, MM17b, MM16d, MM17d, BM10a, BM10b, BM11b, BM11c, CWM16, CM16b, Mil91, MO17]. Fields [BM15, BIT13, BM14, BMT14, MM16b, MM16c, MB14]. finding [Mil16k, Mil18]. Fine [Nes98]. Finite [MEM97, KMW12a]. first [FM86, FM87a, Mil85b]. first-order [FM86, FM87a, Mil85b]. fixed [MSB08, MSB09]. flow [SM91]. fluid [BM85, BM92]. fluids [MF83]. folded [ACK+13a, ACK+13b, MNM+08a, MNM+08b]. fools [Mil17a]. forces [Mil17d]. form [MBW06]. forms [HM14a, HM15c, HM15b, HM17b, Mil16d]. fraction [KMW12b, KMW14, Mil87a, Mil87b, MN11, Mil11, MN12, Mil12a]. Fractions [KM13, KKM11, KM12, KKM12]. Frequency [Ber09, HCM16, HMC16, MEM97, MS07, MSB08, MSB09, MSB09]. function [CM94, GMO09e, GMO11a, Mil17b]. Functional [Mil16k]. functionals [CEM05]. functions [CM16c, CM17, Mil86b, MG90, Mil15b, Mil15d, Mil16h, Mil16m, MO17]. fundamental [CM16c, CM17].

Gassman [BM91]. general [Gra09]. generalization [MO17]. generalize [Mil13a, Mil13b, Mil15a]. generalized [BM10b, BM91]. generate [Mil86b]. geometries [MM+08a, MNM+08b]. geometry [ACK+13a, ACK+13b, PKM05a, PKM05b, PKM06]. Giant [BM08, BM09a]. given [MS07, MS08]. Graeme [Gra18, Sha17, Ano16a, BCS09]. Green [Mil16h, MO17]. grid [EM99]. group [SM00]. guaranteed [BPZ+16, BPZ+17]. guiding [MCE17, MCE18].
Hall [BM08, BMM08, BM09a, BM09b, BM10c, Gra09, Mil17a, Mil88].
Hall-effect [Mil88].
harmonic [CWM15, CM16a, MW10a, MW10b].
Hashin [BM10a, BM10b, MW10a, MW10b].
having [MS11, TM14a, TM14b].
Hierarchical [Mil05, LM02].
High [HCM16, HMC16].
High-frequency [HMC16].
highly [MPM88, Smy09].
Holes [MSM03, MMS03].
Homogenisation [GM98b].
Homogenization [BMM08, BM09b, BMN04, CEM05, HCM16, HMC16, LM02, Smy09, Tur89].
Honor [BCS09].
Hybrid [MS09, MS10b].
hydrostatic [VM04, VM05].
hyperbolic [MMS13a, MMS13b].
hyperelastic [LPP09].
ideal [HMDB16b, HMDB16a, Mil17d].
identities [Mil16d].
II [ACK+12, ACK+13d, ACK+14, BM10b, Mil85b, Mil87b, MB97].
III [GMB99].
implications [LPP09].
Inclusion
Inhomogeneous [MGDV03, BPZ+16, BPZ+17, KM14a, KM14b, MM81, MM16b, Mil79, MSB08, MSB09].
interactions [CEM05].
interchange
Introduction [BCS09].
invariance [Jas09].
Invariant [CLM92, MBW06].
Inverse [MM90, KMW12a, Mil16i].
Isotropic
key [Mil04b].
Kramers [MEM97].
Kronig [MEM97].
Lagrangian [GM98b].
laminated [Wil09].
Laminates
Laplace [GM009b].
law [MW07].
laws [MO17].
layers [Ber98].
lecture
lenses [MN06, MN07].
limitations [MNMP05].
limits
linear [BM92, MM16b, MW07, Mil16d, MO17, VM08].
link
loading [VM04, VM05].
loadings [MM15].
local [CEM05].
localization [Smy09].
localized
macroscopic [LPP09, Mil07b, Mil07c, Mil12c, Mil13d].
Magnetic
Magneto [BM10d, BM11b, BM11c].
Magneto-Transport [BM10d, BM11b, BM11c].
Make [MS02, Ano16c].
manipulating [PKM05a, PKM05b]. many [Mil18]. map [CWM15, CM16a]. Mapping [MM98]. mass [MS11]. material
[KM13, KM91a, Mc93, MS02, Mil16b, Ano16b, BIT13, BMT14, BKM+12, EML02, FM09, Jas09, KKM11, KM12, KKM12, Mil16d, MPT82, Mil10, MMS13a, MMS13b, Mil14, Mil15c, Mil16c, MBH16, MCE17, MBH17, MCE18, MSM17, PTM82a, SM00, SM99]. mathematicians [Ano16c]. Mathematical
[GMO11c, GMO12, MM16d, MM17d]. matrices [MS07, MS08b]. Matrix-based [BM10c, BM10a, BM10b, BM11a].
maximize [NM91]. Maximum [Mil05]. Maxwell [CWM15, CM16a]. measured [EML02, MMM82]. measurement
[KMW12b, KMW14, MT13, TM13, TM15]. Measurements
[KM13, KKM11, KM12, KMW12a, KKM12, Mil11, Mil12a]. measures [Tar89]. mechanical [Mil81d]. mechanics [Jas09]. Medal [BCS09]. Media
[MGDV03, BM88, BM91, BM92, FM87b, GM93, GMB99, HCM16, HMC16, MM81, MM90, Mil79, Mil86b, MM95, MB97, Mil04a]. Medium [BM97, BM10a, BM10b, BM11a, Mil84b, Mil84a, Mil85a, Mil85b, MW10a, MW10b]. metamaterial [HMM11a, HMM11b, Mil17a, MS11]. metamaterials
[BST+14, BST+15, Mil07b, Mil10a, Mil10b, Mil12b, Mil12c, Mil13c, Mil13d]. Method [KM13, KKL+14, CWM16, CM16b, KKM11, KM12, KKM12, KKL+13, Mil90a, Mil90b, Mil91, Mil16f]. methods
[MM82, Mil16a, MSM17]. microgeometries [Mil84b, Mil84a]. Microgeometry [BM88]. Microstructure [LPP09, Mil97a]. Microstructures [KM91a]. Milton [BCS09, Ano16a, Gra18, Sha17]. Minimization [MSB08, MSB09]. minimized [CCK+07b]. minimizing
[MCE17, MCE18]. Minimum [MW10a, MW10b]. Mixing [MS02]. mixtures [FM09, MHB16, MHB17]. model [SMD86]. Modeling
[CM94, Mil86a]. models [Mil85b]. modifications [MW07]. moduli
[ACG+96, EML02, GM93, GMB99, KM14a, KM14b, KMM1b, MPT82, MK88, MB97, Mil03, Mil04a, PTM82b, PTM83]. Modulus
[AM89b, GM93, GMB99, MB97, TM14a, TM14b]. Moment
[ACK+09, ACK+10]. MR0865235 [FM87a]. MR3078206 [Mil15a]. multi
[BM11a, MS08b]. multi-phase [BM11a]. multi-terminal [MS08b]. Multicomponent [Mil87a, Mil87b, Mil81d, MG90]. multimaterial [Che09]. Multiphase [BM10d, FM87b]. multiterminal [MS07]. myriad [Mil97a].

Near [MCE17, MCE18]. Necessary [GMS00]. need [Ano16c]. negative
[KM14a, KM14b]. negative-stiffness [KM14a, KM14b]. networks
[GMO09c, GMO11a, Mil87a, Mil87b, MS07, MS08b]. Neumann [ACK+11, ACK+12, ACK+13c, ACK+13d, ACK+14, CWM15, CM16a, MSM17]. Neutral [MS01]. neutrality [MMM09]. Newton [MW07]. Newtonian
[Kan09]. no [FM87a]. Non [CCK+07a]. CEM05, Mil16h, VM08]. non-linear
[VM08]. Non-local [CEM05]. Non-Magnetic [CCK+07a]. non-self-adjoint [Mil16h]. nonlinear [MS00, Mil12b, Mil13c].
Nonmagnetic \cite{CCK07b}. Normalization \cite{BM85}. notion
\cite{Mil13a, Mil13b, Mil15a}. null \cite{GM98b}. null-Lagrangian \cite{GM98b}.
Numerical \cite{SM99, EM99, HMM97}.

Object \cite{MM16d, MM17d}. one \cite{GM98b, KMW12b, KMW14}. ones \cite{MM98}.
Opaque \cite{MN06, MN07}. operator
\cite{ACK11, ACK12, ACK13c, ACK13d, ACK14}. operators
\cite{Mil16h, Mil18}. Optimal \cite{MGDV03, MM98b}. Optimal
\cite{GM98b, KMW12b, KMW14}. Optimizing \cite{FM86, FM87a, Mil85b, PTM83}.
oriented \cite{BM11a}. orthotropic \cite{HM14b, HM15a, HM17a}. Other
\cite{Gra18, Mil16g, Sha17, BM03, Mil81b}.

Pairs \cite{KKM08, MSM03, MMS03, MN11, MN12}. Partial \cite{NM06}. partially
\cite{NM94}. particles \cite{MNBM09}. passive \cite{CM16c, CM17}.
Patterns \cite{MM16d, MM17a, MM17b, MM17d}. PDE \cite{MO17}.

phase-interchange \cite{ACLM88, ACM89}. phases
\cite{CMW16, KM14a, KM14b, Mil17b}. phenomena
\cite{MM06, MM07}. Phenomenon \cite{Mil07a}. photonic
\cite{Mil04a}. Phys \cite{FM87a}. physical \cite{MBW06, Mil18}. physics
\cite{Mil85b, Mil16d}. Piezoelectric \cite{Mil04b, BM03}. pivots
\cite{Mil12b, Mil12c, Mil13c, Mil13d}. planar \cite{ACG96, HMM97, MM98}. plane
\cite{CLM92, MM95, MS01}. plasmonic \cite{MNBM09}. Plate
\cite{MM03, MM04, KMW12a}. Platonic \cite{MM09}. plus \cite{GM98b}.
Poincaré \cite{ACK11, ACK12, ACK13c, ACK13d, ACK14}. Poincaré-type
\cite{ACK11, ACK12, ACK13c, ACK13d, ACK14}. point \cite{AM98b}.

Poisson \cite{Mil92}. polarizabilities \cite{Mil17c}. polarizable \cite{NM06}. Pólya
\cite{KM06a, KM06b, KM08, Kan09, MK06}. polyconvex \cite{HM14a, HM15c}.
polycrystal \cite{CM94}. Poly crystalline \cite{NM91, FM87b}. Polycrystals
\cite{AM89b, ACM88, ACM89, ACG96}. polynomials
\cite{HCM16, HM15a, HM17a}. Pontryagin \cite{Mil05}. poroelasticity \cite{Ber98}.
porous \cite{BM88, BM91, BM92}. possible
\cite{ACG96, Mil85b, Mil90b, MBH16, MBH17, PTM82b}. potential
\cite{Kan09, Mil85a, Mil85b}. practice \cite{MSM17}. Prager \cite{BCS09}.
prescribed \cite{Mil10a, Mil10b}. pressure \cite{MF83}. Principle \cite{Mil05}.

problem

Printed
problems [KMW12a, MM90, MM98, Mil16].  Proceedings [MGDV03].  Progress [ACK+09, ACK+10].  Projection [Mil16k].  Proof [Mil01, Mil86b, MNMP05].  proofs [FM09].  Propagation [Smy09].  Properties [MGDV03, Mil04b, Mil05, BM03, CLM92, Che09, CM95, GLM93, MM81, MMM82, MM87, Mil79, Mil81b, Mil81c, Mil81d, MMM81, Mil82, Mil84b, Mil84a, Mil86a, Nes98, NMM93, NMM94, SM99].  Property [KKM08, GM98b].

quadratic [HM14a, HM15c, HM15b, HM17b].  quasi [CM16c, Mil13a, Mil15a].  quasi-convexity [Mil13a, Mil15a].  quasi-static [CM16c].  quasiconvex [HM14a, HM15c, HM15b, HM17b].  quasiconvexity [Mil94, Mil13b].  Quasistatic [NMMB07, CM17, GMO11c, GMO12, MNMP05].

random [BM88].  randomly [BM11a].  range [MC93, MEM97].  Rank [GM98b].  rational [Mil15b, Mil15d].  ratios [Mil92].  real [MM95].  Reality [MN06a, Ano16c].  Realizability [BM15, BKM+12, Mil10a, Mil10b, BM14, MB14].  Realizable [MSM03, MS07, MS08b, MMS03, BIT13, BMT14, Mil85a, Mil85b, Mil88, MC95].  recursion [CWM16, CM16b, Mil91].  refinement [EM99].  Reflection [CCK+07a].  regime [GMO11c, GMO12, MNMP05].  reinforced [Gra09].  reiterated [LM02].  relation [HM14b, HM15a, HM17a, SM91].  Relations [Mil97b, GM98a, GMS00, Gra09, HMM97, Jas09, Mil97a, MEM97, MO17, Wi10].  Representations [MG90].  resistivity [NM91].  resolution [HM11a, HM11b, PKM05a, PKM05b].  resonance [ACK+11, ACK+12, ACK+13a, ACK+13b, ACK+13c, ACK+13d, ACK+14, MNBM09, MMO+14, MNO+16, MNMP05, MN06b, MNM+08a, MNM+08b, MMOT14, NMMB07].  Resonances [NMMB06].  resonant [NMM94].  respect [MMO+14, MMO+16, MMOT14].  response [EM99, GMO09e, GMO11a, MM15, MM16a, MM16b, MM16c, MS07, MS08b, Mil11, Mil12a, SMD86].  result [Jas09].  Results [Mil04b, BM03, BM91, BM92, HMM97].  Review [Gra18, Sha17, Jas09, Kan09, Mil90a].  rigid [Mil12b, Mil12c, Mil13c, Mil13d, MHB16, MHB17].  Rigorous [KM14a, KM14b, CM16b, CM16c, GM93, GBM99, MB97].  rocks [SMD86].  rope [Ano16c].  ropes [HMDB16b, HMDB16a].  rough [SK09].  route [Mil18].

Satisfying [KKM08].  saturated [BM92, SMD86].  scalar [Mil03].  scale [Smy09].  scattering [CCK+07b, Mil17c].  scheme [BM10a, BM10b, EM99, Mil85a, Mil85b].  Schrödinger [Mil16f, Mil16m].  Science [MN06a, Mil16g, BCS09, Gra18, Sha17].  searchlight [MMS13a, MMS13b].  second [MW07].  self [BM10a, BM10b, Mil16h].  self-adjoint [Mil16h].  self-consistent [BM10a, BM10b].  Semiconductor
Sensitivity [MMO⁺14, MMO⁺16, MMOT14]. sequential [CM94]. series [MSM17]. set [Mii88, Mii90b, MC93, Mii17d]. Sets [FM94, Mii94]. several [Mii15b, Mii15d]. shallow [KMW12b, KMW14]. Sharp [KKM11, KKM12, Mii13a, Mii13b, Mii15a]. shear [ACG⁺96, GMB99, MB97, TM14a, TM14b]. shell [KMW12b, KMW14]. Shtrikman [BM10a, BM10b, MW10a, MW10b]. sign [BMN04, BM09b]. Signals [MS02, SM00]. simulation [SM99]. Sixth [MGDV03]. Size [KKL⁺14, KKL⁺13]. small [Tar89]. Snowbird [MGDV03]. Society [BCS09]. Solution [Mil97b, GM98a, MCE17, MCE18]. Solutions [KM06b, KM08, MK06, MNM⁺08a, MNM⁺08b, Nes98]. solving [Mii16f]. Some [Mii85b]. sources [GMO10, GMO11b]. spaced [MPM88]. Special [BCS09]. Spectral [ACK⁺11, ACK⁺12, ACK⁺13c, ACK⁺13d, ACK⁺14, HMM11a, HMM11b]. structure [MM17a, MM17b, Mii03, Mii04a]. Structures [ACK⁺09, ACK⁺10, LM02]. studies [MPM88, Mii79]. subspace [Mii15b, Mii15d, Mii16l]. sufficient [GMS00]. super [HMM11a, HMM11b]. super-resolution [HMM11a, HMM11b]. Superfunctions [Mii15d, Mii16l]. superlens [PKM05b, PKM06, PKM05a]. superlenses [MNMP05]. superlensing [MNMP05]. support [Mii17d]. surfaces [SK09]. symmetry [HM14b, HM15a, HM17a]. synthesis [GMO09e, GMO11a]. systems [MNBM09, Mii16b, Mii16c, NMMB07]. Szego [Mii06a, Mii06b, Mii08, Kan09, Mii06].

tension [Mii17d]. Tensor [ACK⁺09, ACK⁺10, AM89a, Mii11, Mii17b]. tensors [FM94, GM98b, GMS00, HM14b, HM15a, HM17a, Mii88, Mii09a, Mii09b, MC93, Mii94, MC95, Mii10a, Mii10b, MBH16, MHH16, Mii17b, MBH17, MHB17]. terminal [MS08b]. their [Mii11, Mii12a, Mii15b, Mii15d]. theorem [Mii13a, Mii13b, Mii15a]. Theoretical [Ano16c, Mii79]. Theories [BM97, MM81]. Theory [Gra18, Mii09, Mii16g, Sha17, ACK⁺11, ACK⁺12, ACK⁺13c, ACK⁺13d, ACK⁺14, BM11a, Gra09, Mii84a, Mii16c, MSM17, Mii16k]. Thermal [MG85, Ber99, CM95, PTM82a]. thermodynamics [MC93]. thermoelastic [CM05]. thermomechanics [BM92]. Thin [AM13a, AM13b, Ber98, KMW12a]. Thin-Interphase [AM13a, AM13b]. third [PTM83]. third-order [PTM83]. Three [KM13, NMMB06, ACK⁺13a, ACK⁺13b, ACM88, BMN04, BM09b, BM11b, BM11c, BKM⁺12, BST⁺14, BST⁺15, KM12, MB97, Mii14, Mii15c, NMM93]. Three-Dimensional [KM13, ACM88, BMN04, BM09b, BM11b, BM11c, BKM⁺12, BST⁺14, BST⁺15, Mii14, Mii15c]. Three-Phase
time [CWM15, CM16a, MM15, MW10a, MW10b].  

time-harmonic [CWM15, CM16a, MW10a, MW10b].  

tool [MCE17, MCE18].  

tools [Ano16b].  

total [VM05].  

touching [MM87].  

Transformation [GMOS11, GMOS13, MBW06].  

tran**sient** [MM16a].  

transitions [FM86, FM87a, Mil85b].  

Translation [KM13, KKL+14, KKM11, KM12, KKM12, KKL+13, Mil90a, Mil90b].  

Transport [BM10d, MM87, MM81, MGDV03, NMM93, BM11b, BM11c, MM81, MM82, MM90, Mil79, Mil81c, Mil81d, Mil82].  

**Transversely** [Ber98].  

Travel [MS02].  

traveling [HCM16, HMC16].  

trusses [Mil17d].  

Two [KM13, KKL+14, AM89a, BPZ+16, BPZ+17, BM91, BMMO8, CWM16, Che09, CM94, CM95, FM87b, FM09, GM93, GMB99, GM98b, GOM10, GOM11b, GOM11c, GOM12, KKM11, KMW12b, KM12, KKM12, KKL+13, KMW14, KM91b, Mil81a, Mil81b, Mil81c, Mil82, MM82, MPT82, Mil86b, Mil88, MM95, MB97, Mil11, Mil12a, Mil17b, NMMB07, Smy09, SM00].  

two-component [CWM16, Mil81a, Mil81b, Mil81c, Mil82, MPT82].  

**Two-Dimensional** [KKL+14, BMM08, Che09, CM94, CM95, FM87b, GM98b, KKM11, KKM12, KKL+13, KM91b, Mil86b, Mil88, MM95, Mil17b, NMMB07].  

two-phase [BPZ+16, BPZ+17, CM95, GM93, GMB99, KMW12b, KMW14, KM91b, Mil86b, MB97, Mil11, Mil12a].  

two-scale [Smy09].  

type [ACK+11, ACK+12, ACK+13c, ACK+13d, ACK+14, MM17a, MM17b, MW10a, MW10b].  

types [Mil87a, Mil87b].  

Uniformity [KKM08].  

unimode [Mil12c, Mil13d].  

Universal [Mil11, Mil12a].  

USA [MGDV03].  

use [PTM82b].  

Using [KKL+14, Mil05].  

ACK+13a, ACK+13b, CM94, EM99, KMW12b, KKL+13, KMW14, Mil13c].  

UT [MGDV03].  

value [Mil16].  

variables [Mil15b, Mil15d].  

Variational [BM97, MK88, Mil16m, BM85, Mil90b, MSB08, MSB09, MW10a, MW10b].  

velocity [SM00].  

via [MN99, Smy09].  

vis [BM10a, BM10b].  

vis-à-vis [BM10a, BM10b].  

Viscoelastic [BM97, GLM93, Ber09, EML02, GM93, GMB99, MM15, MM16a, MB97, VM05].  

Volume [KM13, KKM11, KMW12b, KM12, KKM12, KMW14, MN11, Mil11, MN12, Mil12a, MT13, TM13, TM14a, TM14b, TM15].  

W [Ano16a, BCS09, Gra18, Sha17].  

wave [MM17a, MM17b, Mil03].  

Wavelengths [NMMB06].  

waves [HCM16, HMC16, MW10a, MW10b, Smy09].  

weak [MCE17, MCE18, KM08].  

webs [Mil17d].  

Which [BIT13, BMT14, MC95, Mil13b].  

while [MCE17, MCE18].  

Winner [BCS09].  

wire [Mil17d].  

without [CCK+07a, MM17c].  

zero [MS11].
References

[ACG+96] M. Avellaneda, Andrej V. Cherkaev, Leonid V. Gibiansky, Graeme W. Milton, and M. Rudelson. A complete characterization of the possible bulk and shear moduli of planar polycrys-


REFERENCES


REFERENCES


REFERENCES


REFERENCES


References

Berryman:1991:ERG

Berryman:1992:ERL

Berryman:1997:VBE

Benveniste:2003:NER

Briane:2008:GHE

Briane:2009:GHE
REFERENCES

2009. CODEN MMSUBT. ISSN 1540-3459 (print), 1540-3467 (electronic).


<table>
<thead>
<tr>
<th>Reference</th>
<th>Details</th>
</tr>
</thead>
</table>


REFERENCES


Cassier:2015:ADN


Cassier:2016:RAFa


Eyre:1999:FNS


Eyre:2002:BIC


Fisher:1986:CFO

REFERENCES


REFERENCES


[GMO09b] Fernando Guevara Vasquez, Graeme W. Milton, and Daniel Onofrei. Active exterior cloaking for the 2D Laplace and Helmholtz

**GuevaraVasquez:2009:BECa**


**GuevaraVasquez:2009:BECb**


**GuevaraVasquez:2011:CCS**
REFERENCES


[HM14b] Davit Harutyunyan and Graeme Walter Milton. On the relation between extremal elasticity tensors with orthotropic symmetry


REFERENCES


REFERENCES


REFERENCES


[MB97] Graeme W. Milton and James G. Berryman. On the effective viscoelastic moduli of two-phase media. II. Rigorous bounds on the


[MC95] Graeme W. Milton and Andrej V. Cherkaev. Which elasticity tensors are realizable? *Journal of Engineering Materials and Tech-
REFERENCES


REFERENCES


[Milton:2003:PSI]


[Milton:2017:TCC]


[Milton:1979:TST]


[Milton:1980:BCD]


[Milton:1981:BCP]

Milton:1981:BEE


Milton:1981:BTO


Milton:1981:CBT


Milton:1982:BET


Milton:1984:CEEb

REFERENCES


Milton:1990:CSP
Milton:1991:FER
Milton:1992:CMP
Milton:1994:LBS
Milton:1997:CMM
REFERENCES


REFERENCES


REFERENCES


[Mil13b] Graeme W. Milton. Sharp inequalities which generalize the divergence theorem — an extension of the notion of quasiconvexity, with


REFERENCES


REFERENCES


REFERENCES

[Mil16] Graeme W. Milton. Superfunctions and the algebra of subspace
collections. In *Extending the Theory of Composites to Other Areas
of Science* [Mil16g], chapter 7, pages 179–234. ISBN 1-4835-6919-5
math.utah.edu/books/milton.

[Mil16m] Graeme W. Milton. Variational principles and $Q_{\phi}$-convex func-
tions for Schrödinger’s equation. In *Extending the Theory of Com-
posites to Other Areas of Science* [Mil16g], chapter 13, pages 337–

[Mil17a] Johanna L. Miller. Semiconductor metamaterial fools the Hall
DEN PHTOAD. ISSN 0031-9228 (print), 1945-0699 (elec-
The journal issue cover image is based on work by Graeme Milton and colleagues.

[Mil17b] Graeme W. Milton. Approximating the effective tensor as a func-
tion of the component tensors in two-dimensional composites of
two anisotropic phases. *arXiv.org*, ??(??):??, May 7, 2017. CO-
02633.

[Mil17c] Graeme W. Milton. Bounds on complex polarizabilities and a new
perspective on scattering by a lossy inclusion. *arXiv.org*, ??(??):??, April 22, 2017. CO-
DEN ????? ISSN 2331-8422. URL https://
arxiv.org/abs/1704.06832. Published in Phys. Rev. B 96,
104206 (2017).

[Mil17d] Graeme W. Milton. The set of forces that ideal trusses, or wire
webs, under tension can support. *arXiv.org*, ??(??):??, April 30,
abs/1705.00381.
REFERENCES


REFERENCES


REFERENCES


Milton:1981:TPA


McPhedran:1982:ESI


McPhedran:2009:PCB


Meklachi:2014:SAL


Meklachi:2016:SAL

REFERENCES


Milton:2006:CEA


Milton:2011:BVF


Milton:2012:BVF


McPhedran:2009:CPR


Milton:2006:OPL

REFERENCES


[MPM88] Ross C. McPhedran, L. Poladian, and Graeme W. Milton. Asymptotic studies of closely spaced, highly conducting cylinders. *Pro-
Milton:1982:NBE


Milton:2000:BCN


Milton:2001:NCI


Milton:2002:CMM


Milton:2007:RRM

REFERENCES


[MSB08] Graeme W. Milton, Pierre Seppecher, and Guy Bouchitte. Minimization variational principles for acoustics, elastodynamics, and

\textbf{Milton:2009:MVP}


\textbf{Milton:2003:RAS}


\textbf{Moulinec:2017:CIM}


\textbf{Milton:2013:BVI}


\textbf{Milton:2007:MNS}


REFERENCES


REFERENCES


Phan-Thien:1982:NBE


Phan-Thien:1982:PUB


Phan-Thien:1983:NTO


Sharma:2017:BRE


Sevostianov:2009:ECC

REFERENCES


REFERENCES


