

# A Selected Bibliography of Publications by, and about, Benoît Mandelbrot

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## Title word cross-reference

$(2 + 1)$  [Zha09].  $1/f$   
[Ano99, Bak00, Gar78, Man67a, Man99b, Man02d, VC75, VC78, Vos79].  
**\$14.00** [Man61f]. **\$14.95** [Kir79, Sto79]. 2  
[Man85d, Mar04, NCS04, OdlCA02].  $2 + 1$  [Mac08]. 20 [FMS96]. 3  
[Bou09b, Car96, CB97, Gin02, HSK89, HD91, HKHP11, Maj98, Mar10, Nor82].  
**\$3.00** [Man60c]. **\$30.00** [Tay13]. **\$32.50** [Whe83]. **\$39.95** [Ano98a, Ano03a].  
 $3x + 1$  [XX07]. **\$42.95** [Ano99]. **\$5.00** [GM61, Man60e, Man60e, Man60b].  
 $5/3 + B$  [Man76b]. **\$54.95** [Ano03b]. **\$6.75** [Man60d]. **\$8.75** [Man62a]. 80  
[FMS96].  $[0, 1]$  [BJM10b]. <sup>th</sup> [Wei05].  $C$  [CZ98].  $\mathcal{M}$  [Man83c, Man83d].  $\epsilon$   
[Pic86].  $\exp(-\alpha\zeta + Z/\zeta - Z) - 1 = 0$  [YHHS93].  $f(\alpha)$  [Man89b, Man90b].  $\gg$   
[CB59].  $H$  [Man69].  $J$  [CZ98].  $k$  [AS92, STI99].  $L$   
[Bra94, AO97, AO01, OdlCA02].  $\lambda$  [Man80].  $\ll$  [CB59].  $M$   
[Car99a, CZ98, Man85a, Man85b, Man85d, Old01].  $\mu$  [Man83c, Man83d].  $n$   
[Cha11].  $n^2$  [Man85a].  $q$  [MML01].  $Q_\alpha(\mathbf{R}^n)$  [Yue10].  $R$  [Man85b].  $R/S$

[MW69c, Man72b, MT79, Man02d].  $\rho$  [TW11].  $\sigma$  [Ate93].  $Z$   
 [CZ98, Man80, Man83c, Man83d].  $z \leftarrow zw + c$  ( $w = a + ib$ ) [CZ98].  
 $z \rightarrow z^{-n} + c$  [Shi93].  $z \rightarrow \lambda(z + 1/z)$  [Man84g].  $z \rightarrow \lambda z(1 - z)$   
 [Man80, Man85c].  $z \rightarrow z^2 - \mu$  [Man83c, Man83d].

**-Automorphisms** [Ate93]. **-D** [CB97, Car96, HSK89, HD91, Nor82].  
**-dimensional** [OdlCA02, Zha09]. **-exponential** [MML01]. **-gram** [Cha11].  
**-martingales** [BJM10b]. **-regular** [AS92]. **-set**  
 [Car99a, Man85a, Man85b, Man85d, Old01]. **-spectra** [Man69]. **-system**  
 [Bra94].

**0-7546-3933-9** [Pic07]. **0-902205-58-7** [Fri04].

**1** [Man01d]. **10** [CHR54]. **11th** [CMR06]. **14** [BGL67, LBG63]. **150** [GM61].  
**1960** [Man61a]. **1974/75** [Man75f]. **1977** [MS78]. **1980** [AGP81]. **1982**  
 [CR83]. **1983**. [SMR84]. **1985** [PT86]. **1989** [AF90]. **1992** [KK93]. **1993**  
 [Ano93b]. **1995** [EPV96].

**2002** [LvF04a, LvF04b, Man02c]. **2003** [ACM03]. **2005** [CMR06]. **200th**  
 [MS78]. **2010** [And11]. **20th** [Man02b]. **2nd** [Man62a].

**3** [Kur90, Voj89]. **3-7643-1771-X** [Kur90, Voj89]. **3.1** [Lar90]. **31** [Man75f].  
**32.50** [Ano98a]. **33** [Seu12]. **34.00** [Ano99]. **3D** [Hug98].

**40** [BCM92]. **41** [Man73d]. **44th** [IEE03]. **459** [Man62a].

**65th** [AF90]. **6th** [DLM99].

**7** [Tay13]. **75** [Bri85].

**'89** [RW89].

**'92** [KK93]. **'96** [BDLS96]. **978** [Tay13]. **978-0-307-37735-7** [Tay13].

= [M<sup>+</sup>85].

**A.** [Man55b, Man61a]. **Abb** [Sto79, Voj89]. **Able** [Man10b]. **aboard**  
 [Ano89b, Dew89]. **Abstract** [Kel00a, Kel00b]. **abstracts**  
 [GMA<sup>+</sup>98, LMP85, MP84]. **Abundance** [BATL88]. **abuse** [Old01].  
**acceleration** [SH96]. **Accelerator** [Chu11, Chu12]. **accelerators** [Mar10].  
**According** [Man61d]. **ACM** [ACM03]. **acquisition** [EW96]. **across**  
 [Man01a]. **activities** [PJS99]. **Activity** [GM64, BBM79]. **Adaptation**  
 [Man51a, Man51b, Fla98, Man51a, Man51b]. **Adaptive** [LLP96]. **additifs**  
 [Man60g, Man62e]. **Additive** [yWjCnG07, Man60g, Man62e, XRZ09].

**addresses** [KLPS06]. **Administration** [PR84b]. **Advanced** [BBBH92].  
**Advances** [FpDS99, DLM99]. **advancing** [DDH10]. **Adventurers** [Gar88b].  
**Aeolian** [Pic94]. **aesthetic** [SCNT03]. **aesthetics** [MRM<sup>+</sup>05]. **Affine**  
[CD93b, LVEB09, NR95, BV11, Bou09a, Bra94, DV93, DHKT95, Man85g,  
Man86c, Man86d, Man86e, Mar04]. **affinity**  
[Ano99, Ano03b, Man99b, Man02d]. **after** [DK06, KNBZ12]. **against**  
[VHA05]. **Age** [VBM98, EHH05]. **aged** [Ano10a]. **agglomerates** [CGC<sup>+</sup>09].  
**agglomeration** [MML01]. **aggregates** [BRRK94, EMW92a, EMW92b,  
MP84, Man91a, ME91, NFT<sup>+</sup>01, NCS04, Vor02]. **Aggregation**  
[MKA02, KVMW95, Vor02]. **Airspaces** [Hel92]. **Alamos** [CR83]. **Albert**  
[Lee59]. **Aldershot** [Pic07]. **aléatoire** [Man59c, Man74a, Man74b].  
**aléatoires** [KM65, Man74a, Man74b, Man75b, Man78b]. **algebra**  
[Bin02, Old01]. **Algorithm** [All90, MH94, BCM91, BCM92, GJV17, Gar88a,  
GAH93, GTL11, JT96a, LPZ08, PU08, Ran91, SL97, UP07, Woo94].  
**Algorithms** [Lew89, RBM96]. **Allen** [Man60d]. **Allendoerfer** [Man60d].  
**Allometric** [WBE99]. **along** [FPR92]. **alphabetic** [FM02a]. **Alternative**  
[CGM96, Man96a, Man78b]. **alternatives** [Man95e]. **am** [PR84b]. **America**  
[Ano03a]. **American** [LvF04a, LvF04b, ALW<sup>+</sup>88]. **among** [Est11]. **Amount**  
[Man64d]. **AMS** [DK06]. **AMS-IMS-SIAM** [DK06]. **analog** [Wes94].  
**analogue** [SH92]. **analyse** [BBB<sup>+</sup>10]. **Analysis** [BB99, BBBH92, CL87,  
Fis95, GT07, JSM06, LL97, Man59d, Man60e, Man60c, Man06c, MS78,  
TMJ06, VBM98, VEJA89, ADdM<sup>+</sup>12, BM04c, BBB<sup>+</sup>10, CGC<sup>+</sup>09, CP98,  
DR99, DSB96, DdMdO<sup>+</sup>99, EPV96, Hig11, JT96a, JTEA91, LKH97, Man67d,  
Man72b, MT79, Man06b, MV02, NIS<sup>+</sup>03a, NIS<sup>+</sup>03b, OMK<sup>+</sup>05, RRB06,  
Sig96, SCC<sup>+</sup>07, TMJ99, TKR<sup>+</sup>97, TdRGD09, VC86, Man61h]. **analytic**  
[BB79, BBM79]. **analyze** [Cas96]. **Angeles** [Hou95]. **Angular** [MKA02].  
**Animated** [Dev92, Man01a, SSK93, ZPSJ90]. **Animation** [Bur02]. **animées**  
[Man01a]. **Annals** [Man60e]. **annealing** [Sah93]. **anniversary**  
[ALW<sup>+</sup>88, MS78]. **Annual** [IEE03, LvF04a, LvF04b]. **Anomalies**  
[Man03d, Man86e, Man93c]. **anomalou** [Man90b]. **Anthony** [Man74e].  
**antialiased** [HD91]. **antipersistent** [CGM95, Man95b]. **Antipodal** [MS94].  
**Anwendung** [Man57a]. **Anwendungsbeispielen** [Kau92]. **anxiety**  
[TKR<sup>+</sup>97]. **aortic** [PM94]. **Apollonian** [Bou06]. **Apostel** [CC58, Lee59].  
**Apparent** [Man63d, Man01d]. **appearance** [DK06]. **appeared** [Man61a].  
**Application** [BATL88, Man96b, ZWZL06, BB79, BM93, Izs06a, JM96b,  
Kau92, Man57a, Man65d, Mas05b, Thi89, VM95, WGKS12]. **Applications**  
[BBBH92, La 86, MV68, CHR54, DR99, Esp97, Fer95, GMA<sup>+</sup>98, Jaf98,  
LvF04a, LvF04b, Suz91, Rai03]. **Applied** [GM61, Jak84]. **apprenticeship**  
[Man02c]. **Approach** [Pic86, BK03, CL87, EB73, EPV95, FHD09, LKH97,  
MH05c, MH09, Mar04, MC02, PH91, SW92, Vla94, VM95, YJ09]. **approche**  
[MH05c, MH09]. **approx** [Man61f]. **Approximant**  
[BR78, Bar73, BR74b, Bar76]. **approximants** [BR74a, Bar75, BB76, EB73].  
**Approximate** [You13, BR74b]. **approximation** [BA78, Man72a, Man75b].  
**approximations** [AK13]. **April** [Rai03]. **Arbeiten** [Man61a]. **Arbitraged**

[Man71c]. **architecture** [NFT<sup>+</sup>01, PM94, YJ09]. **area** [AK13, ES92, Imr06, Man75j]. **Aref** [Ano93a, Ano93c]. **arguments** [RPÁM04, RPAM06]. **Arising** [Dev88, Man49, Man00]. **arithmetic** [PH90]. **Arithmetics** [Ano89a]. **Arrow** [Man61e]. **Art** [Man89c, RW89, Ent89, Kel00c, Man89a, Man93b, Man01a, Man02a, MM91, Rad96]. **arterial** [SCC<sup>+</sup>07]. **artery** [SCC<sup>+</sup>07]. **arthropod** [MLDW85]. **Arthur** [Lev05]. **Artificial** [Imr06, DKW94a]. **Artist** [Gin02]. **artistic** [Car99a, Loy91, Ye02]. **Arts** [Man81b, Man07]. **Ashgate** [Pic07]. **ASI** [Fis95]. **Aspects** [Man68, HWM87, Izs06b, LMP85, Man80, MP84, WSM88]. **Assessment** [NIS<sup>+</sup>03a, NIS<sup>+</sup>03b]. **Assisted** [Vrs86]. **Associated** [LVEB09, Vrs86, dACSS12]. **Association** [Ano03a]. **astronomy** [FF91]. **Asymptotics** [MDM02]. **atmospheric** [KK93]. **attractions** [Ber86]. **Attractors** [GOY87, Man77c, Man79b, PS88b, CM91, Ghi86, Man77a]. **August** [KK93, RW89]. **Ausstellung** [PR84b]. **Author** [Man60e]. **authorship** [Aus14]. **automata** [AvHP<sup>+</sup>97, CD93b, Sah93]. **Automatic** [Pic94]. **Automaticity** [AvHP<sup>+</sup>97]. **automaton** [SS91]. **Automorphisms** [Ate93]. **Autumn** [Loy91]. **aux** [DT89, Man56b, Man78b, Ste98]. **avalanche** [GDC<sup>+</sup>10]. **Averages** [GT07]. **Away** [Sel10]. **axial** [Man49].

## B

[AF90, Ano98a, Ano99, Ano03a, Ano03b, Ano05, Bak00, BF12b, Boy83, Bre79, Bur84, Cam96, Can84, Cha84, CC58, CB59, Dys78, Fer83, Goo78, Goo84a, Goo84b, Goo91, Hir89, How78, Ios79, Kac78, Kal03, Kil78, Kir79, Kir83, Kur90, Lan89, Man60d, Man61b, Man62a, Man74e, Man01d, Mir01, Pei10a, Pei10b, Sch05, Seu11, Seu12, Spa84, Sto79, Tay13, Voj89, Whe83, Man60a]. **B.** [Bri85, KNBZ12, Man62a]. **backbone** [GAMK81]. **Bacteria** [Man74c]. **balancing** [JH97]. **Balaton** [JV98]. **bands** [MM08, PRÁM04]. **bandwidth** [MdF05]. **Barcelona** [DLM99]. **Barnsley** [Goo91, Lan89, Lev05, Jon90a]. **base** [Gof91, Man62e, Man79a]. **Based** [HLTP01, BB79, CP98, Dav95, Dre01, EW96, GAH93, KPY96, LPZ08, Man57c, Man59c, Man62e, Man79a, PH91, Pum96, SL97, TQ10, TTMB96, WY96, WCH03, WW08, XX07]. **basée** [Man57c, Man59c]. **Basel** [Kur90, Voj89]. **Bases** [VBMS96, Gil86]. **Basic** [GFB<sup>+</sup>10, Man86c, Van10]. **Basin** [GOY87, CGH02]. **Batrachion** [Pic95]. **BBC** [Ano10a]. **be** [Man71c, Wal96]. **beat** [Ste88]. **Beating** [Fla91]. **Beautiful** [MPM02]. **Beauty** [Ano87, Dew87, Gar91, Har90, PR86, Fla98, LG10b]. **become** [ALW<sup>+</sup>88]. **becomes** [Man92a]. **behavior** [CS87, GK03, MH04a]. **behavioral** [Man57a]. **behaviors** [Zha09]. **Behaviour** [EJM91, MH08b, Gru05, MH05b]. **Behind** [Mag04, Man88b]. **benefit** [Zaa10]. **Benoît** [AF90, Ano05, Bak00, Bar08, Boy83, Bre79, Bur84, Cam96, Can84, Cha84, CHR54, Dev92, Dys78, FR98, Fer83, Goo78, Goo84a, Goo84b, Hir89, How78, Ios79, Kac78, Kal03, Kil78, Kir79, Kir83, LvF04a, LvF04b, Lee59, Lev05, Mir01, Sch05, Tay13, LMNW05, Whe83, And11, Ano95, Ano10b, Ano10c, Ano10a, Bar85, BF12a, BF12b, Baw11, Bou11, Cam00, Con10, Dav84,

DrKP10, Est11, Far11, Gil04, Gom10, Gru05, Gui87, Jaf11, Kah74, KP76, Kir11, Kur90, LG10a, Man06a, Man12, Pei10a, Pei10b, Per10, SBvB<sup>+</sup>12, Sel10, Seu11, Seu12, Shl05, Sim61b, Taq13, Tay11, Ten10, Val11, Voj89, Wei05].  
**Benoit** [Ano98a, Ano99, Ano03a, Hof10]. **benzodiazepine** [TKR<sup>+</sup>97].  
**Berlin** [Ano98a]. **Berry** [Man57b, SH92]. **Better** [Adl12, BS88, KRP<sup>+</sup>91].  
**Between** [Man03c, BBB<sup>+</sup>10, BL93, CZ98, EG94, Man67a, Man84b, MH05a, MH08a, Orl76]. **Beyond** [Mon01, Man04a, Sch05]. **Biaccessible** [Zak06].  
**Bibl** [CB59]. **Bibliometric** [Fai69, Fai05]. **Bicentenary** [MS78].  
**Bifurcation** [Pic87, Pro97]. **Bifurcations** [Bur02]. **Bilder** [M<sup>+</sup>85, PR84a, PR84b]. **binary** [Pro97, Sen90, YM94]. **binding** [TKR<sup>+</sup>97].  
**binomial** [MJ97]. **biological** [GDC<sup>+</sup>10, Man56b, MS78]. **biologiques** [Man56b]. **Biology** [SG00, Wil97]. **biomorphs** [OdICA02]. **Biophysical** [PR84b]. **Biophysikalische** [PR84b]. **bird** [HRO02]. **Birkhäuser** [Kur90, Voj89]. **Birth** [Man74c]. **Birth-and-Mutation** [Man74c]. **Birthday** [Wei05, AF90, Shl05, LMNW05]. **bisection** [Ran91]. **bit** [Slo94].  
**Bivariational** [BB76, BR76, BR77, RB79]. **black** [FHD09]. **block** [GAH93, KM11, KPY96, Liu95a]. **block-coding** [GAH93]. **blood** [SCC<sup>+</sup>07].  
**Bochner** [Man60e]. **body** [HRO02, MLDW85, Suz91]. **Boltzmann** [BC80, NCS04, Man61d]. **Bombay** [VBMS96]. **Book** [Ano93a, Ano98a, Ano99, Ano03a, Ano03b, Bak00, Bri85, Dev92, Fri04, GM61, Goo84a, Gru05, Ios79, Kir79, Kir83, Kur90, Liu06, Man60e, Man60a, Man60b, Man60c, Man60d, Man61b, Man61e, Man61c, Man61d, Man61f, Man61a, Man62a, Man63a, Pic07, Spa84, Sto79, Tay13, Voj89, Whe83, Ano91]. **Books** [Tay13]. **Bose** [Mas05a]. **Boston** [RW89, Voj89]. **bottom** [EJM91]. **boucle** [Man78b]. **Boundaries** [GOY87, ADdM<sup>+</sup>12, Bis95, CGH02, DdMdo<sup>+</sup>99].  
**Boundary** [BR76, BH89, Shi98, AST07, Man85b, Man85d].  
**Boundary-Value** [BR76]. **Bounded** [GKL03]. **Bounding** [BT81, Bou85, Bar73]. **Bounds** [BR76, BR78, BR74b, BR75, BB76, Bar76, BR77, RB79]. **box** [CP98, FHD09, FpDS99]. **box-counting** [CP98, FpDS99]. **Bradford** [Fai69, Fai05]. **Braid** [dLKHS06]. **brain** [HKS<sup>+</sup>05, HTHE05, RPS<sup>+</sup>06].  
**Branched** [Dha05, Fle97]. **Branching** [HKE01, YMK94]. **breakdown** [Lan97]. **breaking** [VJ06]. **Breaks** [MB94]. **Bremen** [AGP81]. **bridge** [Man67a]. **Brief** [Mit03, Vos79]. **Britain** [Man67b, Man91c]. **Broken** [Man72a]. **brown** [Gar78]. **Brownian** [BB99, CGM95, CGM96, MV68, Man75b, Man82b, Man95b, Man96a, Taq13].  
**brownien** [Man75b]. **Buchbesprechung** [Ano05]. **Bud** [CZ98].  
**Bud-sequence** [CZ98]. **buffalo** [Fin89]. **Buffon** [MS78]. **building** [PR84b].  
**Bureau** [SMR84]. **Burrige** [Has07].  
**C** [Dev92, Lev05, Man60d, Roo10, Esp97, Man04a]. **C/C** [Esp97]. **CA** [ACM03, LvF04a, LvF04b]. **Cache** [VMH<sup>+</sup>83, Thi88, Thi89]. **cache-miss** [Thi88]. **Calculations** [Pic86]. **Calculator** [For04]. **Called** [Ano87, Dew87].  
**Cambridge** [Fri04, IEE03, Man60a, Man60c]. **Can** [Ewi95, Man71c]. **cancer**

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BRRK94, EPV95, Fle97, MV89, NDS85, San85, San86]. **growth-decay** [Bra94]. **Guide** [Ste00a, Ste00b]. **Gustav** [Man61f].

## H

[Abb95, Dev92, Gar91, Har90, Kir79, Kir83, Man60e, Nat91, Sto79, Man02d].

**H.** [Man59d, Man61h, Man65d]. **H.-O** [Dev92]. **hadron** [Ohn90]. **half** [Cha90]. **half-century** [Cha90]. **Hamiltonian** [GM88, NM09]. **Handbook** [BGL67, LBG63, Rac03]. **Hard** [Caw89]. **hardback** [Kir83, Pic07].

### Harmonic

[BB99, EM92, Man60e, EJM91, EMW92a, EMW92b, ME91, Man92b].

**harmonics** [Cla86, CM99]. **Harmonie** [PR84a]. **Harmony** [PR84a]. **Harnessing** [BJM<sup>+</sup>88]. **Harold** [Man61b]. **hasard** [Man67f, Man73a, Man75d, Man78b, Man84e, Man89d, Man98c, Man09a, Man10c]. **Hasards** [Man75c]. **Hashing** [HCF95]. **Hassan** [Ano93a, Ano93c]. **Hausdorff** [BL93, Gar88a, Man76a, Man86e, Shi98]. **Hazes** [WT10]. **Health** [Pic07]. **Heart** [Bia89, VBM98, NIS<sup>+</sup>03a, NIS<sup>+</sup>03b, PM94]. **heat** [Set92]. **Heavy** [DrKP10, Man03a, Rac03]. **Heinz** [Goo91, Lan89]. **Heinz-Otto** [Goo91, Lan89]. **held** [CR83, CMR06, LvF04a, LvF04b, MS78, SMR84]. **Helmholtz** [AST07]. **hemorrhage** [SCC<sup>+</sup>07]. **Henry** [Man61b]. **Herdan** [Man61f, Man61g]. **Heterogeneous** [LL97]. **Heuristic** [BF95]. **Hexagonal** [NWM<sup>+</sup>06]. **HGA** [Sch90]. **Hidden** [BEHM89, Man08]. **hierarchical** [HS93, Man75e, Man79a, WGKS12]. **hiérarchisé** [Man75e, Man79a]. **High** [Zaa10, Man74d, SL97]. **high-order** [SL97]. **High-temperature** [Zaa10]. **Higher** [Vrs86]. **Hilbert** [BB76]. **History** [Mit03, Mur93]. **Hoeffding** [Man61b]. **Hogg** [Man60d]. **Hölder** [Man95a]. **Hölders** [Man95a]. **homage** [Ano10e]. **home** [HRO02]. **homage** [Ano10e]. **homogeneous** [Man75i, RPS<sup>+</sup>06]. **homomorphisms** [GDH96]. **homothetic** [Man65d]. **homothétiques** [Man65d]. **Honor** [Ano95, Man61b]. **honoring** [DrKP10]. **honour** [AF90, CMR06]. **honouring** [AF90]. **Horton** [YM94]. **Host** [ME72]. **Hotelling** [Man61b]. **Hubbard** [Gar91, Har90]. **Hudson** [Gru05, Ano05]. **Hugh** [Ano90]. **hull** [DM92]. **human** [EW96]. **humans** [EHH05]. **Hungary** [JV98]. **Hurst** [DR99, Man65d]. **Hutchinson** [BCM92, BCM91]. **Hybrid** [ZZZ<sup>+</sup>96]. **Hydrodynamic** [NCS04]. **Hydrology** [SS00, MW68]. **Hype** [Hir89]. **Hyperbolic** [Fai69, Fai05, GF95, HJ94]. **hypercubic** [GMMA83]. **hypotension** [HTHE05]. **hypotheses** [Man67f]. **Hypothesis** [Fam63, Man72e].

**Ian** [Lev05]. **IBM** [Pic94]. **ICF11** [CMR06, CMR06]. **ICIP'95** [IEE95]. **ICTP** [PT86]. **Idea** [Wol16]. **ideal** [Mas06]. **ideas** [Kir11, Wol16]. **identification** [TdRGD09]. **IEEE** [IEE03]. **IFS** [CB97, Mar04, Mar10]. **IFSs** [Hor90b]. **ihre** [Man57a]. **II** [BGL67, LBG63, BM04c, BM04a, DL92, GASM84, Jaf97b, Man51b, Man86d, Man01c]. **III** [Man61a, GAM84, Man85a, Man86e]. **Illustration** [RHD<sup>+</sup>06]. **im** [M<sup>+</sup>85, PR84b]. **Image** [BB90, BJM<sup>+</sup>88, Fis92, Fis95, IEE95, Liu95a, MS78,



Par89, ZY94, BE95a, BE95b, COK96, CK96, CZ98, CP98, CK93, Dav96, EW96, GAH93, Ham95, HMS96a, HMS96b, HKHP11, Hor90b, Hür93, JT96a, JM96a, JT96b, KM11, KKL95, Kom95, KPY96, LKH97, LPZ08, LV96, LLP96, PH91, RBM96, SR96, Sau96a, SH96, Sau96b, Sig96, Slo94, TQ10, TTMB96, UH96, WY96, WW08, WM94, Wu99, YHHS93, ZZZ<sup>+</sup>96]. **Imagery** [VEJA89, JTEA91, Pum96]. **Images** [BS88, BHI11, LVEB09, PS88a, PJS92c, Bar88b, BDM<sup>+</sup>88, Bar93a, BL93, CD93b, FP89, GBR<sup>+</sup>09, GFB<sup>+</sup>10, HS93, Imr06, Loy91, Man88b, Man01a, OdICA02, WCH03, Woo94, Ye02, Goo91, Lan89]. **Imaging** [Hig11, Esp97]. **impairment** [OMK<sup>+</sup>05]. **Imperfection** [BB90]. **Imperial** [Man02c]. **implementations** [FpDS99, GMMA83]. **implementations** [JT96a]. **implications** [KFN00, Mai90, Man86e]. **Implicit** [Dav96, HKHP11]. **Impossible** [Bro07]. **improved** [WW08]. **IMS** [DK06]. **Include** [Man10b, Man85e]. **Income** [Man61k, Man62b, Man63d, Man60f]. **incomes** [Man59f]. **incompressible** [Ghi86]. **increasingly** [Man92a]. **Incremental** [CT91]. **increments** [Man03a]. **Independence** [HASM96, Man60c]. **independent** [BM04b, BM04a, Man03a, NM09]. **index** [CL87, FM02a]. **India** [VBMS96]. **indices** [Man61f]. **individual** [Man85a]. **inequality** [Yue10]. **inescapable** [Man05a]. **infinie** [Man59c, Man73c]. **Infinite** [Man95c, YHHS93, BM04b, BM04a, DL92, FC00, Man59c, Man69, Man73c, Man86a, RM95]. **Infinite-corner-point** [YHHS93]. **Infinitely** [GAM84]. **Infinity** [Cla10a, LG10c, LG10b, Lev05]. **Inflationary** [Lin94]. **influence** [EHH05]. **Influences** [BF12b]. **Inform** [BCM92]. **Information** [Man59b, Man65a, Man66b, Man66c, AMM57, AMM74, Baw11, Man51a, Man52c, Man57c, Man59b, Man61c]. **Informational** [Man53b]. **Informationstheorie** [Man61a]. **Informazione** [Man60h]. **Ingenieur** [Man57a]. **Ingram** [Man61b]. **inhomogeneous** [LSL86]. **insistence** [Man57b]. **inspection** [CP98]. **instability** [NDS85]. **instantaneous** [Man66d]. **instantanés** [Man66d]. **Institut** [PR84b]. **Institute** [PR84b, BBBH92]. **integrable** [Mac08, Zha09]. **integral** [BR74b, RB79, WWGF05]. **Integrals** [Man60e, KVZZ08, Suz91, Man60e]. **intelligent** [MC02]. **Interaction** [VMH<sup>+</sup>83]. **interactions** [BBB<sup>+</sup>10]. **Interactive** [HKHP11, CGC<sup>+</sup>09, Hor90b, LK98]. **interest** [Man70b]. **interface** [DLM99]. **intermiss** [Thi88]. **Intermittent** [Man74d, Man76b, Mil57, Man72e]. **intern** [CB59]. **internal** [Hoo91]. **International** [CR83, CMR06, IEE95, KK93, PT86, AF90, VBMS96]. **Internet** [Tau98, TG09]. **Interoccurrence** [Has07]. **Interpolation** [BEHM89, DKW94b, Bou09a, Man85c, Pum96]. **Interpretation** [Man59b, SVVRGA09, LO96, Man51b]. **Interprétations** [Man51b]. **Interscience** [GM61]. **Intersection** [Bou85]. **interstellar** [dVSC96]. **interval** [Per96]. **Interview** [Dav84]. **Interviews** [AA85, AA08]. **intrinsèque** [Man52c]. **intrinsic** [Man52c, MJ97]. **Introduction** [Abb95, BM04b, BM04a, Man94, Man95d, Nat91, PJS92d, SM89a, Bou06, Kau92, Man88a, Man60d]. **intuitive** [Man85f]. **invariance** [Man67f, MC87].

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**J** [CB59, Man60b, Man61e, WC06]. **Jaffe** [ABC<sup>+</sup>94]. **James** [Hir89]. **Janua** [Man61f]. **January** [LvF04a, LvF04b]. **Java** [Hug98]. **jeux** [Man53a]. **John** [Gar91, Har90, Hir89, Man60c, Man74e, Man60a, Man60b, Yue10]. **Joint** [DK06]. **Jonathan** [Sel10]. **Jonckheere** [CB59]. **Joseph** [Man63a, MW68, Man73b]. **joue** [Ste98]. **joue-t-il** [Ste98]. **JPEG** [EW96]. **jubilee** [LvF04a, LvF04b]. **Julia** [Ano87, ARC14, CCC00, Dew87, DSB96, DAB99, DMT03, Eng93, Ent89, GH04, Gin02, Kel00b, Man85e, Man85f, OdICA02, PSvH84, Sau87, Shi98, Vrs86, yWjCnG07]. **July** [Fis95, GMA<sup>+</sup>98, PT86, RW89]. **June** [ACM03, DK06, MS78, PR84b, RW89]. **Juni** [PR84b]. **Jurgens** [Dev92, Abb95, Nat91]. **justification** [Man59c].

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 [FMS96, Man03d, Mit03, SVVRGA09, ARMG03, BP84, Cha11, CL87, Dev57,  
 Egg99, Gai06, MSW08, MRM<sup>+</sup>05, Man57b, Man60f, Man60g, Man62d,  
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 [Sau96b]. **Learning** [KK90]. **LeBaron** [Man01d]. **Lecture**  
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**Like** [DAB99, Vrs86, CGC<sup>+</sup>09, CD93a, MV02, Wai88]. **likelihood** [Izs06a].  
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 [MKA02, EMW92a, EMW92b, KVMW95]. **limiting** [Man55a]. **Limits**  
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 [CHR54]. **Lyapunov** [WC06].

**M** [GM61, Goo91, Lan89, Man60e, WC06]. **M.** [Roo10]. **M.Tichomirow**

[Man61a]. **Machina** [MM89]. **machine** [BDLS96, DLM99]. **Machol** [Man61c]. **Macintosh** [Esp97, Kat86]. **Macmillan** [Man60d, Man63a]. **macro** [Man59a]. **macro-linguistics** [Man59a]. **macroscopic** [Man57c]. **macroscopique** [Man57c]. **Madow** [Man61b]. **Magic** [Lar90, Ano88]. **magmatic** [Cor90]. **Mai** [PR84b]. **Maintenance** [Lef82]. **Maior** [Man61f]. **make** [Fra98]. **makers** [Wol16]. **makes** [Esp97]. **mammal** [HRO02]. **Manage** [Adl12]. **management** [DDH10, FHD09]. **Mandelbrot** [Abb95, AF90, And11, Ano93a, Ano98a, Ano99, Ano03a, Ano03b, Ano05, Are93, Aus14, BATL88, Bar08, Bri85, CHR54, CC58, CB59, DK06, EPV96, Gar91, Gom10, Goo91, Gru05, Hal96, Har90, Hir89, Kir79, Kir83, Kur90, Lan89, LvF04a, LvF04b, Lee59, Lef82, Lev05, MVW<sup>+</sup>03, Mud02, Nat91, Pei10a, Sch90, Sch05, Swe91, Tay13, Voj89, LMNW05, Whe83, ARMG03, AK10, AK13, Ano87, Ano88, Ano89b, Ano93b, Ano93c, Ano95, Ano10b, Ano10c, Ano10a, Ano10d, Ano10e, ARC14, Ate93, AB85, Bak00, Bar84, Bar85, BH89, BF12a, BF12b, BPW09, Baw11, BL80, BP84, Bou11, Boy83, Bre79, Bri88, Bur84, Bur02, Cam96, Cam00, Can84, Cha84, Cha11, CCD88, CCGS91, Chu11, Chu12, CCC00, CHR54, Con10, Dav84, DM90, Dev90, Dev91, Dev96]. **Mandelbrot** [Dev99, Dev04, Dev57, Dew85b, Dew87, Dew89, Dha05, DSB96, DAB99, DMT03, DrKP10, Dur78, Dys78, Egg99, Est11, ES92, Ewi95, FL91, Fai69, Fai05, Fam63, Far11, FR98, Fer83, For04, FR92, FPR92, GJV17, Gar88b, GF95, Gil04, Gin02, GMV09, Goo78, Goo84a, Goo84b, Gui87, Her05, Hof10, Hoo91, Hor90a, How78, Ios79, IKP01, Izs06a, Izs06b, Jaf11, Jon90b, JV98, Kac78, KNBZ12, Kah74, KP76, Kal03, Kat86, Kel00a, Kel00b, Kil78, Kir11, KM89a, dLKHS04, dLKHS06, Lan97, Lef82, LG10a, LR00, Mag04, MPM02, Man04a, Man06a, Man12, Man05a, Mas05b, Mas06, MM08, Mei92, Met94, Mir90, Mir01, Mon01, Orl70, Orl76, OdlCA02, PRÁM04, PR85, PJS92e, Pei10b, Per10, Phi92, PFR94, Pou86, Pro95, Pro97, Rad96, Rat93, Roj91]. **Mandelbrot** [RPÁM04, RPAM06, RAA<sup>+</sup>08, Roo10, SBvB<sup>+</sup>12, SVVRGA09, Sch05, Sch11, Sch86, Sel10, Sen90, Seu11, Seu12, Shi98, Shl05, Sim61a, Sim61b, Smi91, Spa84, Sto79, TW11, Taq13, Tay11, Ten10, Val11, Vrs86, VM98, yWjCnG07, Wei05, LMNW05, WGKS12, Wes94, XRZ09, You13, Zak06, Dev92, Lar90]. **Mandelbrot-Like** [DAB99, Vrs86]. **Mandelbrote** [Fri04, Pic07]. **Mandelbus** [Ano89b, Dew89]. **Mann** [Man61b]. **many** [Man81a, Suz91]. **many-body** [Suz91]. **map** [Car99b, Man84g, Man85c]. **mapping** [BF95, Man83c, Man83d]. **mappings** [CCC00]. **Maps** [Mil86, Car99b, Eng93, Ham95, IKP01, Man84g, Man85a, Man85b, Man85d, Man85e, Man85f, Man85c]. **March** [CMR06, Fri04]. **marchés** [MH05c, MH09]. **Margaret** [Pic07]. **Mark** [Man60c]. **Market** [Man68, Mas05a, Mas05b]. **Markets** [Man66a, MH08b, MH04a, MH04b, MH05c, MH05b, MH09, MH05a, MH08a, Gru05]. **Markov** [Man60b, Man60g]. **Markovian** [Man61i]. **markoviens** [Man60g]. **Märkte** [Ano05, MH05a, MH08a]. **Martingale** [Man66a, Man71c, BCM03, Man03b].

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**micro** [YJ09]. **micro-architecture** [YJ09]. **microgravity** [VCM<sup>+</sup>11].  
**microparticle** [dLKHS06]. **micropulses**  
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**MIDI-Encoded** [MPM02]. **Mild** [MT10, OMK<sup>+</sup>05]. **mineral** [FSD89].  
**minimizing** [HKHP11]. **Minimum** [Wu99]. **mining** [Win05]. **Minkowski**

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**N** [Man70a, Man99b]. **N.Kolmogoroff** [Man61a]. **nano** [CGC<sup>+</sup>09]. **nano-agglomerates** [CGC<sup>+</sup>09]. **Nanoassembly** [NWM<sup>+</sup>06]. **Nanoscale** [EKKR06]. **National** [SMR84]. **NATO** [BBBH92, Fis95]. **Natur** [Kur90, Man91b, Voj89]. **Natura** [MM89]. **Natural** [Man81b, Man07, Cha11, CM99, DdCVR03, GH04, KH92, Man54b, Man56c, Man62d, Man78c]. **naturaleza** [Man97c, FR98]. **Nature** [ABLM98, Man83b, Man91b, Man97c, Man98b, MPB<sup>+</sup>98, Ste10, VMH<sup>+</sup>83, Vos88, DSS90, Fla98, KRP<sup>+</sup>91, MSW08, Man76a, Man82e, Man82c, Nov04, WY92, Bri85, Boy83, Bur84, Cam96, Can84, Cha84, Fer83, Goo84a, Goo84b, Spa84, Whe83, Kir83]. **Nauk** [Man61a]. **Nawrotzki** [Man61a]. **Ndynamics** [ADdM<sup>+</sup>12]. **Near** [Man63d, KK90]. **near-optimal** [KK90]. **Necklaces** [Man78b]. **need** [Man05a]. **Negative** [Man90a, Man91d, Man95a, Man03d, Man70a, Man89b, Man90c, MF09]. **neighborhoods** [Man93a, SAM93]. **Neonatal** [VBM98]. **Net** [Ano98b]. **Networks** [Orb86, LSL86, NYO94, RPS<sup>+</sup>06]. **Neuron** [GM64]. **neurophysiologic** [HWEH05]. **Never** [Sel10]. **newer** [Man64b]. **News** [Ano10a]. **Newton** [Fri04, Bis95, Car99a, Car99b, Sch11, Smi91, YHHS93]. **NGC5506** [MC87]. **Nigel** [Lev05]. **Nirenberg** [Yue10]. **No** [Kir79, Kir83, Man60e, Man60c, Man73d, Man01d, WW08]. **no-search** [WW08]. **Noah** [MW68]. **Noise** [Lew89, VC75, Ano99, Man55a, Man67a, Man71a, Man72a, Man76c, Man99b, Man02d, VC78, Vos79, XRZ09, vW91, Bak00]. **Noises** [MV68, Man67a, MW69b]. **Noisy** [GPS92, EHH05]. **nombres** [Man56b]. **Non** [BM04c, Man71b, Van09, BR77, Fle97, FSD89, Gin02, Gui87, KKL95, Man60g, Man62e, MC02]. **non-additive** [Man60g]. **Non-degeneracy** [BM04c]. **non-distributive** [Gin02]. **non-equilibrium** [Fle97]. **non-fractal** [FSD89]. **non-Gaussian** [Man62e]. **non-iterative** [KKL95]. **Non-linear** [Van09, BR77, MC02]. **Non-Normal** [Man71b]. **noncommutative** [Lap08]. **noncyclic** [MW69c]. **nonfractal** [CS87]. **noninteger** [GMMA83]. **Nonlinear** [GOY87, TE92, AGP81, BB79, CR83, NFT<sup>+</sup>01]. **nonperiodic** [Man72b]. **Nonsmooth** [Man96b, DT91, JM96b]. **Nontransient** [MKA02]. **Noor** [ARC14]. **Normal** [Man71b, RPS<sup>+</sup>06]. **Normalized** [Man75g, Man75f, Man75h, Man85b]. **Norway** [Fis95]. **nos** [CHR54]. **Nostrand** [Man60b]. **notable** [Wol16]. **Note** [FP89, Hoo91, Man76c, Gué01, Man57b, Man59d, Man61h, Man61j, Sim61b]. **notes** [Sim60, Val11]. **Notion** [Man89g, Man52c, Man85b, Man90c]. **nouveau** [Man79a]. **Nouveaux** [Man66d]. **nouvelles** [Man73a, Ste98]. **Novel** [KKL95]. **November** [And11, SMR84]. **NP** [STI99]. **NP-completeness** [STI99]. **nuclear** [BT81]. **nucleation** [Fle97]. **nucleus** [MM10]. **Number** [GM61, Gof91, Man60c, Man74c, DM92, Man56b, Man75j]. **number-area** [Man75j]. **numbers** [Sen90]. **numeration** [DT89, DT89]. **Numerical** [ADdM<sup>+</sup>12, DdMdO<sup>+</sup>99, TPVG06, AK13, CMP07, Dro10, NYO94, AGP81].

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**Philosophical** [Mur93]. **phrases** [Egg99]. **Phys** [EMW92a]. **Physical**  
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