

ANTH0073: Digital Infrastructure: Materiality, Information and Politics

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A, F. (2015). The moral technical imaginaries of Internet convergence in an American television network. In Digital Labour and Prosumer Capitalism. Palgrave Macmillan. <http://ebookcentral.proquest.com/lib/ucl/reader.action?docID=4008745&ppg=96>

Abram, S. (2005). Introduction: science/technology as politics by other means. *Focaal*, 2005(46). <https://doi.org/10.3167/092012906780786816>

Alien Energy | Marine Renewable Energy as Alien: Social Studies of an Emerging Industry. (n.d.). <http://alienenergy.dk/>

Amin, A. (2014). Lively Infrastructure. *Theory, Culture & Society*, 31(7-8), 137-161. <https://doi.org/10.1177/0263276414548490>

Amoore, L. (2006). Biometric borders: Governing mobilities in the war on terror. *Political Geography*, 25(3), 336-351. <https://doi.org/10.1016/j.polgeo.2006.02.001>

ANAND, N. (2011). PRESSURE: The PoliTechnics of Water Supply in Mumbai. *Cultural Anthropology*, 26(4), 542-564. <https://doi.org/10.1111/j.1548-1360.2011.01111.x>

Antina von Schnitzler. (n.d.). Citizenship Prepaid: Water, Calculability, and Techno-Politics in South Africa*. *Journal of Southern African Studies*. <http://www.tandfonline.com/doi/abs/10.1080/03057070802456821>

Appel, H. C. (2012a). Walls and white elephants: Oil extraction, responsibility, and infrastructural violence in Equatorial Guinea. *Ethnography*, 13(4), 439-465. <https://doi.org/10.1177/146613811435741>

Appel, H. C. (2012b). Walls and white elephants: Oil extraction, responsibility, and infrastructural violence in Equatorial Guinea. *Ethnography*, 13(4), 439-465. <https://doi.org/10.1177/146613811435741>

Aradau, C. (2010). Security That Matters: Critical Infrastructure and Objects of Protection. *Security Dialogue*, 41(5), 491-514. <https://doi.org/10.1177/0967010610382687>

Barry, A. (2013a). Material Politics. John Wiley & Sons, Ltd. <https://doi.org/10.1002/978118529065>

Barry, A. (2013b). Material Politics. John Wiley & Sons, Ltd. <https://doi.org/10.1002/978118529065>

Bear, L. (2015a). Navigating austerity: currents of debt along a South Asian river: Vol. Anthropology of policy. Stanford University Press.
<http://UCL.eblib.com/patron/FullRecord.aspx?p=3568956>

Bear, L. (2015b). Navigating austerity: currents of debt along a South Asian river: Vol. Anthropology of policy. Stanford University Press.
<http://UCL.eblib.com/patron/FullRecord.aspx?p=3568956>

Bear, Laura. (n.d.). Lines of the Nation - Indian Railway Workers, Bureaucracy, and the Intimate Historical Self. <https://www-jstor-org.libproxy.ucl.ac.uk/stable/10.7312/bear14002>

Besky, S. (2016). The Future of Price: Communicative Infrastructures and the Financialization of Indian Tea. *Cultural Anthropology*, 31(1), 4–29.
<https://doi.org/10.14506/ca31.1.02>

Bowker, G., K. Baker, F. Millerand, and D. Ribes. (2010a). Toward information infrastructure studies: Ways of knowing in a networked environment. In International Handbook of Internet Research. Springer Netherlands.
<http://ebookcentral.proquest.com/lib/ucl/reader.action?docID=645495&ppg=116>

Bowker, Geoffrey ; Star, Susan. (n.d.). Sorting things out: classification and its consequences.
<https://direct-mit-edu.libproxy.ucl.ac.uk/books/book/4738/Sorting-Things-OutClassification-and-Its>

Boyer, D. (2012). From media anthropology to the anthropology of mediation. In R. Fardon, O. Harris, T. H. J. Marchand, M. Nuttall, C. Shore, V. Strang, & R. Wilson (Eds.), *The SAGE handbook of social anthropology*. SAGE.
<https://doi.org/https://doi.org/10.4135/9781446201077>

Boyer, D. (2014). Energopower: An Introduction. *Anthropological Quarterly*, 87(2), 309–333. <https://doi.org/10.1353/anq.2014.0020>

Brennan, T. (2004). The transmission of affect. Cornell University Press.
<http://UCL.eblib.com/patron/FullRecord.aspx?p=3138638>

Bridle, J., Beresford, E., & Tantor Media. (n.d.). New dark age: technology and the end of the future (Unabridged). Tantor Media.
<https://go.oreilly.com/university-college-london/library/view/~/9781541452589/?ar>

Bruce Robbins. (2002). The Sweatshop Sublime. *PMLA*, 117(1), 84–97.
http://www.jstor.org/stable/823252?seq=1#page_scan_tab_contents

Chapter 3: Engaging Devices: Everyday Carbon Accounting and the Cost of Involvement. (n.d.). In *Material Participation: Technology, the Environment and Everyday Publics*.
<http://ebookcentral.proquest.com/lib/ucl/reader.action?docID=1016577&ppg=71>

CHU, J. Y. (2014). When infrastructures attack: The workings of disrepair in China. *American Ethnologist*, 41(2), 351–367. <https://doi.org/10.1111/amet.12080>

Clough, P. T., & Halley, J. (Eds.). (2007). *The Affective Turn*. Duke University Press.
<https://doi.org/10.1215/9780822389606?locatt=mode:legacy>

Coleman, E. G. (2013). Coding freedom: the ethics and aesthetics of hacking. Princeton University Press.
<http://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,shib&db=nlebk&AN=484858&site=ehost-live&scope=site>

Coleman, E. G., & Golub, A. (2008). Hacker practice: Moral genres and the cultural articulation of liberalism. *Anthropological Theory*, 8(3), 255–277.
<https://doi.org/10.1177/1463499608093814>

COLEMAN, G. (2009). CODE IS SPEECH: Legal Tinkering, Expertise, and Protest among Free and Open Source Software Developers. *Cultural Anthropology*, 24(3), 420–454.
<https://doi.org/10.1111/j.1548-1360.2009.01036.x>

Collier S. & A. Lakoff. (2008). The Vulnerability of Vital Systems: How 'Critical Infrastructure' became a security problem. In M. Dunn Cavelty & K. S. Kristensen (Eds.), *Securing 'the homeland': critical infrastructure, risk and (in)security*: Vol. CSS studies in security and international relations. Routledge, Taylor & Francis Group.

Collier, S. J. (2011). Post-Soviet social: neoliberalism, social modernity, biopolitics. Princeton University Press. <http://www.jstor.org/stable/10.2307/j.ctt7sv1v>

Corsí-n Jiménez, A. (2014). The right to infrastructure: a prototype for open source urbanism. *Environment and Planning D: Society and Space*, 32(2), 342–362.
<https://doi.org/10.1068/d13077p>

Crang, M., & Graham, S. (2007). SENTIENT CITIES Ambient intelligence and the politics of urban space. *Information, Communication & Society*, 10(6), 789–817.
<https://doi.org/10.1080/13691180701750991>

Cultures of Circulation. (2002). *Public Culture*, 14(1), 191–213.
<https://muse-jhu-edu.libproxy.ucl.ac.uk/article/26272>

DALAKOGLOU, D., & HARVEY, P. (2012). Roads and Anthropology: Ethnographic Perspectives on Space, Time and (Im)Mobility. *Mobilities*, 7(4), 459–465.
<https://doi.org/10.1080/17450101.2012.718426>

Dant, T. (2014). True Automobility'. In *Objects and materials: a Routledge companion*: Vol. Culture, economy and the social. Routledge.
<https://doi.org/https://doi.org/10.4324/9780203093610>

Day, R. (2008). *The Modern Invention of Information*. Southern Illinois University Press.
<https://muse.jhu.edu/book/22625>

Dimitris. (n.d.-a). The road: An ethnography of (im)mobility, space and cross-border infrastructures in the Balkans. <https://www.jstor.org/stable/j.ctvnb7ngr>

Douglas, M. (1966). *Purity and danger: an analysis of concepts of pollution and taboo*. Routledge and Kegan Paul.

Edwards, P. (n.d.). Infrastructure and Modernity: Force, Time and Social Organization in the History of Sociotechnical Systems [Electronic resource]. In *Modernity and technology*. MIT Press. <http://UCL.eblib.com/patron/FullRecord.aspx?p=3338806>

Edwards, P. N. (2010). A vast machine: computer models, climate data, and the politics of global warming. MIT Press. <https://ieeexplore.ieee.org/servlet/opac?bknumber=6267526>

Elizabeth. (n.d.-b). Routes/Worlds | e-flux. <http://www.e-flux.com/journal/routesworlds/>

FENNELL, C. (2014). Experiments in Vulnerability: Sociability and Care in Chicago's Redeveloping Public Housing. *City & Society*, 26(2), 262–284.
<https://doi.org/10.1111/ciso.12043>

Gabrys, J. (2014). Programming environments: environmentality and citizen sensing in the smart city. *Environment and Planning D: Society and Space*, 32(1), 30–48.
<https://doi.org/10.1068/d16812>

GANDY, M. (2005). Cyborg Urbanization: Complexity and Monstrosity in the Contemporary City. *International Journal of Urban and Regional Research*, 29(1), 26–49.
<https://doi.org/10.1111/j.1468-2427.2005.00568.x>

Gilles Deleuze. (1992). Postscript on the Societies of Control. *October*, 59, 3–7.
http://www.jstor.org/stable/778828?seq=1#page_scan_tab_contents

GLUCKMAN, M. (1940). ANALYSIS OF A SOCIAL SITUATION IN MODERN ZULULAND. *Bantu Studies*, 14(1), 1–30. <https://doi.org/10.1080/02561751.1940.9676107>

Graham, S., & McFarlane, C. (Eds.). (2015). *Infrastructural lives: urban infrastructure in context*. Routledge. <http://dx.doi.org/10.4324/9781315775098>

Graham, S., & Thrift, N. (2007). Out of Order: Understanding Repair and Maintenance. *Theory, Culture & Society*, 24(3), 1–25. <https://doi.org/10.1177/0263276407075954>

Green, S. F. (2005). Notes from the Balkans: locating marginality and ambiguity on the Greek-Albanian border: Vol. Princeton modern Greek studies. Princeton University Press.

Green, S., Harvey, P., & Knox, H. (2005). Scales of Place and Networks. *Current Anthropology*, 46(5), 805–826. <https://doi.org/10.1086/432649>

Guggenheim, M. (2014). Introduction: disasters as politics - politics as disasters. *The Sociological Review*, 62, 1–16. <https://doi.org/10.1111/1467-954X.12121>

Harvey, P. (2005a). 'The Materiality of State Effects'. In *State formation: anthropological perspectives*: Vol. Anthropology, culture, and society. Pluto Press.
<http://www.jstor.org/stable/10.2307/j.ctt18fs5n7>

Harvey, P. (2005b). The Materiality of State Effects. In *State formation: anthropological perspectives*: Vol. Anthropology, culture, and society. Pluto Press.
<http://www.jstor.org/stable/10.2307/j.ctt18fs5n7>

Harvey, P. (2012). The Topological Quality of Infrastructural Relation: An Ethnographic

Approach. Theory, Culture & Society, 29(4–5), 76–92.
<https://doi.org/10.1177/0263276412448827>

Harvey, P. (2014). Infrastructures of the Frontier in Latin America. The Journal of Latin American and Caribbean Anthropology, 19(2), 280–283. <https://doi.org/10.1111/jlca.12096>

Harvey, P., & Knox, H. (2012). The Enchantments of Infrastructure. Mobilities, 7(4), 521–536. <https://doi.org/10.1080/17450101.2012.718935>

Harvey, P., & Knox, H. (2015a). Chapter 1. In Roads: an anthropology of infrastructure and expertise: Vol. Expertise (Ithaca, N.Y.). Cornell University Press.
https://ucl.primo.exlibrisgroup.com/view/action/uresolver.do?operation=resolveService&package_service_id=14687293320004761&institutionId=4761&customerId=4760&VE=true

Harvey, P., & Knox, H. (2015b). Introduction to Roads: an anthropology of infrastructure and expertise. In Roads: an anthropology of infrastructure and expertise: Vol. Expertise (Ithaca, N.Y.). Cornell University Press.

Harvey, P., & Knox, H. (2015c). Roads: an anthropology of infrastructure and expertise: Vol. Expertise (Ithaca, N.Y.). Cornell University Press.
<https://www.jstor.org/stable/10.7591/j.ctt20fw6f8>

Heather Houser. (2014). The Aesthetics of Environmental Visualizations: More than Information Ecstasy? Public Culture, 26(2 73), 319–337.
<https://doi.org/10.1215/08992363-2392084>

Hetherington, K., & Campbell, J. M. (2014). Nature, Infrastructure, and the State: Rethinking Development in Latin America. The Journal of Latin American and Caribbean Anthropology, 19(2), 191–194. <https://doi.org/10.1111/jlca.12095>

Howe, C., & Boyer, D. (2015). Aeolian politics. Distinktion: Scandinavian Journal of Social Theory, 16(1), 31–48. <https://doi.org/10.1080/1600910X.2015.1022564>

Jensen, C. B., & Winthervik, B. R. (2013). Monitoring movements in development aid: recursive partnerships and infrastructures: Vol. Infrastructures series. The MIT Press.
<http://muse.jhu.edu/books/9780262317016/>

Jonathan Stern (2012). (n.d.-c). MP3 | Duke University Press.
<https://www.dukeupress.edu/mp3>

Kelty, C. M. (2008). Two bits: the cultural significance of free software: Vol. Experimental futures [Electronic resource]. Duke University Press.
<https://doi.org/http://dx.doi.org/10.1215/978082238900?locatt=mode:legacy 2>

Knox, H. (2014). Real-izing the virtual: Digital Simulation and the Politics of Future Making i. In Objects and materials: a Routledge companion: Vol. Culture, economy and the social. Routledge. <https://doi.org/https://doi.org/10.4324/9780203093610>

Knox, H and Walford, A. (n.d.-d). Digital Ontology â◆? Cultural Anthropology.

<https://culanth.org/fieldsights/820-digital-ontology>

Knox, H., O'Doherty, D., Vurdubakis, T., & Westrup, C. (2010). THE DEVIL AND CUSTOMER RELATIONSHIP MANAGEMENT. *Journal of Cultural Economy*, 3(3), 339–359.
<https://doi.org/10.1080/17530350.2010.506320>

Kockelman, P. (2012). Agent, Person, Subject, Self. Oxford University Press.
<https://doi.org/10.1093/acprof:oso/9780199926985.001.0001>

Kockelman, P. (2013). The anthropology of an equation. *HAU: Journal of Ethnographic Theory*, 3(3). <https://doi.org/10.14318/hau3.3.003>

Kuchler, S. (2008). Technological Materiality: Beyond the Dualist Paradigm. *Theory, Culture & Society*, 25(1), 101–120. <https://doi.org/10.1177/0263276407085159>

Langdon Winner. (1980). Do Artifacts Have Politics? *Daedalus*, 109(1), 121–136.
http://www.jstor.org/stable/20024652?seq=1#page_scan_tab_contents

Larkin, Brian. (n.d.). The Politics and Poetics of Infrastructure. *Annual Review of Anthropology*, 42, 327–343.
https://ucl-new-primo.hosted.exlibrisgroup.com/primo-explore/fulldisplay?docid=TN_proquest1512220141&context=PC&vid=UCL_VU2&en_US&search_scope=CSCOP_UCL&adaptor=primo_central_multiple_fe&tab=local&query=any,contains,brian%20larkin&offset=0

Latour, B. (1991). Technology is Society made Durable. In *A sociology of monsters: essays on power, technology and domination*: Vol. Sociological review monograph. Routledge.
<http://www.bruno-latour.fr/sites/default/files/46-TECHNOLOGY-DURABLE-GBpdf.pdf>

Latour, B. (2013). An inquiry into modes of existence: an anthropology of the moderns. Harvard University Press.

Leigh Star S, Bowker G C,. (2005). , "How to infrastructure",. In *Handbook of New Media*. SAGE Publications.
<http://ebookcentral.proquest.com/lib/ucl/reader.action?docID=1023993&ppg=251>

Lessig, L. (1999). Code and other laws of cyberspace. Basic Books.

Lessig, Lawrence. (n.d.). *The Future of Ideas: The Fate of the Commons in a Connected World*.

Life off the Grid | University Of Edinburgh | Home. (n.d.). <http://www.lifeoffthegrid.net/>

Lury, C., Parisi, L., & Terranova, T. (2012). Introduction: The Becoming Topological of Culture. *Theory, Culture & Society*, 29(4–5), 3–35.
<https://doi.org/10.1177/0263276412454552>

Mackenzie, A. (2005a). Untangling the Unwired: Wi-Fi and the Cultural Inversion of Infrastructure. *Space and Culture*, 8(3), 269–285.
<https://doi.org/10.1177/1206331205277464>

Mackenzie, A. (2005b). Untangling the Unwired: Wi-Fi and the Cultural Inversion of Infrastructure. *Space and Culture*, 8(3), 269–285.
<https://doi.org/10.1177/1206331205277464>

Mackenzie, A. (2006). Cutting code: software and sociality: Vol. Digital formations. Peter Lang.

Marcus, G. E. (n.d.-e). Ethnography in/of the world system: The emergence of Multi-Sited ethnography.
<http://www.dourish.com/classes/readings/Marcus-MultiSitedEthnography-ARA.pdf>

Mary Poovey. (1993a). Figures of Arithmetic, Figures of Speech: The Discourse of Statistics in the 1830s. *Critical Inquiry*, 19(2), 256–276.
http://www.jstor.org/stable/1343876?seq=1#page_scan_tab_contents

Mary Poovey. (1993b). Figures of Arithmetic, Figures of Speech: The Discourse of Statistics in the 1830s. *Critical Inquiry*, 19(2), 256–276.
http://www.jstor.org/stable/1343876?seq=1#page_scan_tab_contents

Massumi, B. (2002). Parables for the Virtual (S. Fish & F. Jameson, Eds.). Duke University Press. <https://doi.org/10.1215/9780822383574?locatt=mode:legacy>

Massumi, B. (2010b). The future birth of the affective fact. In *The affect theory reader*. Duke University Press. <https://doi.org/10.1215/9780822393047?locatt=mode:legacy>

Maurer, B. (2015). *How Would You Like to Pay?* Duke University Press.
<https://doi.org/10.1215/9780822375173?locatt=mode:legacy>

McLuhan, M. (1997). Chapter 10. In *Understanding media: the extensions of man*. Routledge.
<https://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,shib&db=nlebk&AN=611647&site=ehost-live&scope=site&custid=s8454451>

Mitchell, Timothy. (2006). 'Society Economy and the State Effect'. In *The anthropology of the state: a reader*: Vol. Blackwell readers in anthropology. Blackwell.

Mukherji, Chandra. (2009). Impossible engineering: technology and territoriality on the Canal du Midi. Princeton University Press.
<http://quod.lib.umich.edu/cgi/t/text/text-idx?c=acls;idno=heb31547.0001.001>

Navaro-Yashin, Y. (2003). 'Life is dead here': Sensing the political in 'no man's land'. *Anthropological Theory*, 3(1), 107–125. <https://doi.org/10.1177/1463499603003001174>

Nye, D. E. (1992). *Electrifying America: social meanings of a new technology, 1880-1940* (1st MIT Press paperback ed). MIT Press.

Nye, D. E. (1994). *American technological sublime*. MIT Press.

OFFSHORE-INTERACTIVE Blog and News | Just another WordPress site
OFFSHORE-INTERACTIVE Blog and News | Just another WordPress site. (n.d.).
<http://offshore-interactive.com/blog/>

On Technical Mediation | bruno-latour.fr. (n.d.). <http://www.bruno-latour.fr/node/234>

Pedersen, Morten AxelNielsen, Morten. (n.d.). TRANS-TEMPORAL: Reflections on a Comparative Ethnographic Study of Chinese Infrastructural Projects in Mozambique and Mongolia. *Social Analysis*, 57(1), 122–142.
<http://search.proquest.com/docview/1433770826?OpenUrlRefId=info:xri/sid:primo&acountid=14511>

Public Culture. (n.d.). 16(3), 407–429. <https://muse.jhu.edu/article/173743>

Reeves, M. (2011). Fixing the border: on the affective life of the state in southern Kyrgyzstan. *Environment and Planning D: Society and Space*, 29(5), 905–923.
<https://doi.org/10.1068/d18610>

Reeves, M. (2014). Border work: spatial lives of the state in rural Central Asia. Cornell University Press. <https://www.jstor.org/stable/10.7591/j.ctt5hh25v>

Rodgers, D., & O'Neill, B. (2012). Infrastructural violence: Introduction to the special issue. *Ethnography*, 13(4), 401–412. <https://doi.org/10.1177/1466138111435738>

Rogers, D. (2012). The materiality of the corporation: Oil, gas, and corporate social technologies in the remaking of a Russian region. *American Ethnologist*, 39(2), 284–296.
<https://doi.org/10.1111/j.1548-1425.2012.01364.x>

Roitman, J. L. (2013). Anti-crisis. Duke University Press.
<https://doi.org/https://doi.org/10.1215/9780822377436>

Rutherford, J. (2011). Rethinking the Relational Socio-Technical Materialities of Cities and ICTs. *Journal of Urban Technology*, 18(1), 21–33.
<https://doi.org/10.1080/10630732.2011.578407>

Sahlins, M. (2010). Infrastructuralism. *Critical Inquiry*, 36(3), 371–385.
<https://doi.org/10.1086/653405>

SCHWENKEL, C. (2015). Spectacular infrastructure and its breakdown in socialist Vietnam. *American Ethnologist*, 42(3), 520–534. <https://doi.org/10.1111/amet.12145>

Sconce, J. (2000). Haunted media: electronic presence from telegraphy to television: Vol. Console-ing passions. Duke University Press.

Seaver, N. (n.d.). On Reverse Engineering â◆◆ Anthropology and Algorithms â◆◆ Medium.
<https://medium.com/anthropology-and-algorithms/on-reverse-engineering-d9f5bae87812#ek273jdqu>

Sharma, A., & Gupta, A. (2006). Introduction chapter. In *The anthropology of the state: a reader*: Vol. Blackwell readers in anthropology. Blackwell.

Star, S. L., & Ruhleder, K. (1996). Steps Toward an Ecology of Infrastructure: Design and Access for Large Information Spaces. *Information Systems Research*, 7, 111–134.
<http://search.ebscohost.com/login.aspx?direct=true&AuthType=ip,shib&db=bsu>

&AN=4430768&site=ehost-live&scope=site

Star, Susan Leigh. (n.d.-a). The ethnography of infrastructure. *The American Behavioral Scientist*, 43(3), 377–391.
http://search.proquest.com/docview/214765319?OpenUrlRefId=info:xri/sid:primo&acc_ountid=14511

Star, Susan Leigh. (n.d.-b). The ethnography of infrastructure. *The American Behavioral Scientist*, 43(3), 377–391.
http://search.proquest.com/docview/214765319?OpenUrlRefId=info:xri/sid:primo&acc_ountid=14511

Starosielski, Nicole. (n.d.-f). *The Undersea Network* | Duke University Press.
<https://www.dukeupress.edu/The-Undersea-Network>

Steve Graham Simon Marvin. (n.d.). postscript. In *Splintering Urbanism*.
<http://www.tandfebooks.com/ISBN/9780203452202>

Stewart, K. (2007). *Ordinary Affects*. Duke University Press.
<https://doi.org/10.1215/9780822390404>

Stoler, A. L. (2007). Affective States. In D. Nugent & J. Vincent (Eds.), *A Companion to the Anthropology of Politics* (pp. 4–20). Blackwell Publishing Ltd.
<https://doi.org/10.1002/9780470693681.ch1>

Strathern, M. (1996). Cutting the Network. *The Journal of the Royal Anthropological Institute*, 2(3). <https://doi.org/10.2307/3034901>

Swyngedouw, E. (1996). The city as a hybrid: On nature, society and cyborg urbanization. *Capitalism Nature Socialism*, 7(2), 65–80. <https://doi.org/10.1080/10455759609358679>

The Cyber Coup | Society for Cultural Anthropology. (n.d.).
<https://culanth.org/fieldsights/the-cyber-coup>

The Undersea Network | Duke University Press. (n.d.).
<https://www.dukeupress.edu/The-Undersea-Network>

Thrift, N. J. (2005). Closer to the Machine: Intelligent Environments, New forms of Possession and the Rise of the Supertoy. In *Knowing capitalism*: Vol. Theory, culture&society. SAGE.

Townsend, A. M. (2014). *Smart cities: big data, civic hackers, and the quest for a new utopia*. W.W. Norton & Company.

Tsing, A. L. (2005a). *Friction: an ethnography of global connection*. Princeton University Press. <https://doi.org/10.2307/j.ctt7s1xk?locatt=mode:legacy>

Tsing, A. L. (2005b). *Friction: an ethnography of global connection*. Princeton University Press. <https://doi.org/10.2307/j.ctt7s1xk?locatt=mode:legacy>

Tsing, A. L. (2015). *The mushroom at the end of the world: on the possibility of life in*

capitalist ruins. Princeton University Press.
<https://www-jstor-org.libproxy.ucl.ac.uk/stable/j.ctvc77bcc>

Turner, F. (2006). From counterculture to cybersculture: Stewart Brand, the Whole Earth Network, and the rise of digital utopianism [Electronic resource]. University of Chicago Press. <http://UCL.eblib.com/patron/FullRecord.aspx?p=602624>

Uricchio, W. (2011). The algorithmic turn: photosynth, augmented reality and the changing implications of the image. *Visual Studies*, 26(1), 25–35.
<https://doi.org/10.1080/1472586X.2011.548486>

van Kranenburg. (n.d.-g). The Internet of Things: A critique of ambient technology and the all-seeing network of RFID.
<https://networkcultures.org/blog/publication/no-02-the-internet-of-things-rob-van-kranenburg/#:~:text=Here%20Rob%20van%20Kranenburg%20examines,and%20a%20call%20to%20arms.>

Viseu, A. (n.d.-h). NCCA - Kaliningrad. Evolution Haute Couture. Part 2: Theory. Wearable Computers and the Informed Informational Body.
<http://www.ncca.ru/en/articles.text?filial=4&id=66>

Wagner, R., & Wagner, R. (1986). Symbols that stand for themselves. The University of Chicago Press.

Weltevreden, E., Helmond, A., & Gerlitz, C. (2014). The Politics of Real-time: A Device Perspective on Social Media Platforms and Search Engines. *Theory, Culture & Society*, 31 (6), 125–150. <https://doi.org/10.1177/0263276414537318>

Wilf, E. (n.d.). Toward an Anthropology of Computer-Mediated, Algorithmic Forms of Sociality - 673321. <http://www.journals.uchicago.edu/doi/pdfplus/10.1086/673321>

Wolfgang Pietsch. (2013a). Data and Control — a Digital Manifesto. *Public Culture*, 25(2 70), 307–310. <https://doi.org/10.1215/08992363-2020611>

Wolfgang Pietsch. (2013b). Data and Control — a Digital Manifesto. *Public Culture*, 25(2 70), 307–310. <https://doi.org/10.1215/08992363-2020611>