Megamedia: The Growth of International Media Conglomerates

Russell W. Neuman

1993: WP #649

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W. Russell Neuman
Edward R. Murrow Center
of International Communications
Fletcher School of Law & Diplomacy
Tufts University

Prepared for
"Beyond Territoriality:
The Rise of Globalism in Communications"
Columbia Institute for Tele-Information
Columbia University
New York
October 29, 1993

Over the next decade the world system of mass communications as we know it will be fundamentally transformed. Each of the individual media of human communication we have come to take for granted will have new forms and functions — direct mail, books, newspapers, magazines, telephony, radio, television, facsimile, computer networks. By the year 2000 several of these customary forms of human interaction will have withered away and all but disappeared, some will be transformed almost beyond recognition, none will remain untouched. Decisions made between now and 1995 in Europe, North America and Japan will likely determine the economic and policy incentives which will drive and shape this structural revolution.

The source of these changes is not shrouded in secrecy, it is the revolution in digital electronics. There are two powerful engines of technology driving change.

In the first instance, the raw capacity to communicate audio, text and video electronically is growing explosively. In 1975 the average viewer had from five to seven television channels to choose from. Now the average viewer samples from 35 channels via coaxial cable. As this is being written, Time Warner and TCI are installing 500-channel fiber-coax systems and the telephone companies are experimenting with ondemand digital video over standard telephone lines utilizing "ADSL" technology which would provide literally tens of thousands of programs or channels from which a viewer could choose. Concurrently, data communications over computer networks in the U.S. is doubling in volume every three months. Such rates of growth are difficult to comprehend.

In the second instance, the per-unit price of electronic communications is falling at dramatic rates. Advances in fiber optics, high-speed switching, microwave propagation, video compression and satellite communications drive down prices by orders of magnitude. Furthermore, the entry of new competitive players in data, video and voice communications bring these technologies quickly to the marketplace in what was once a domain of tranquil and slow-moving monopolies. If the price decline and functional capacity of manufacturing an automobile over the past two decades had grown at rates equivalent to those in digital electronics, a Mercedes Benz would now get 25,000 miles to the gallon and cost three dollars.

It is inevitable that the behavioral customs, organizational structures and costs of modern marketing will be greatly influenced by these changes. To prognosticate significant change is easy. To assess issues of timing and the ramifications for public policy is much more difficult. I will turn first to a series of structural changes in nature of commercial communications (focusing at this point primarily on the world's industrialized countries.) In my view, the great majority of these structural changes can be characterized as inescapable. It is simply a question of how soon. Some unforeseen technological, regulatory or economic developments could hasten or delay one component

or another but none will alter the basic course of the digital revolution.

The Changing Technical Structure of Mass Communications

1) The End of Monopoly? Mass communications as we know it today has generally been characterized by monopoly or oligopoly and only rarely by meaningful competition. Entry costs are high. Economies of scale are significant. Resource constraints such as available electromagnetic spectrum for broadcasting limit the numbers of channels available by means of federal regulation. Telephony, in fact, has for a hundred years been legally defined as a "natural monopoly" much like the provision of postal services, water and electricity. Television has required a great deal of spectrum. Although there are about 60 channels (VHF and UHF) on the broadcast dial, because of cross-channel interference problems, the number of usable broadcast channels in a typical metropolitan market is only about ten. (In New Jersey, for example, because of proximity of Philadelphia and New York no VHF channels have ever been made available for local broadcasting.) The newspaper monopoly is a special case. In this instance it is the migration of local retail advertising to the paper with the most upscale readership and largest reach which has put the weaker competing newspapers out of business in all but a handful of American cities. Although in the case of an open marketplace for magazines, economic theory would offer the potential of unlimited competition, the reality is otherwise. Constraints of "shelf-space" in all but specialty outlets, high costs of promotion, production and distribution (even with significant postal subsidies) has limited growth and diversity in magazines. Because of title churn and the ritual celebration of new and highly specialized periodicals, there is the impression of a growing cornucopia of magazine vehicles. Actually, the circulation, concentration, and total number of periodicals has not changed significantly since the 1940s.

The digital revolution will continue to apply steady and tectonically strong pressures on the existing communications oligopolies. Desktop electronic publishing, and professional quality video editing on a Macintosh computer bring down production costs by two orders of magnitude. Electronic distribution and local high-quality laser-based color printing bring down costs of distribution and virtually eliminate the shelf-space constraint. If the customer wants the latest copy of The Pacific Northwest Recreational Vehicle News, print out a copy while she waits, on glossy paper, virtually indistinguishable from what they used to print in Seattle. Digital radio broadcasting will multiply the number of available channels by 100 and reintroduce the prospect of national radio networks distributed directly to your car or stereo via satellite with CD quality sound. Digital compression will permit a television broadcaster to send out from five to ten separate signals in the spectrum allocation which

permitted only a single analog channel. The same technology permits a cablecaster to transmit 350 channels rather than 35 without even replacing the cable. Optical fiber transmission and two-way cable architectures provide seamless access to thousands of "channels"/"programs." The meanings of such terms become transformed.

The last bastion of monopoly provision has been the local telephone company. (Long distance services became deregulated as part of the divestiture of AT&T in 1982 in a pattern now being copied by most of the world's industrialized nations.) But as businesses found it profitable to "bypass" the local phone company for access to long distance and private computer networks, telephone-over-cable, cellular and new wireless PCS services eat away at the local telco's market share, the last bastion will fall. It is likely to take the form of a regulatory compromise as telephone companies trade in their less meaningful pseudo-monopoly in telecommunications for the legal right to provide commercial content and video over their upgraded digital networks.

- The Media Implosion. A related characteristic of the digital revolution is the blurring of boundaries between what we now know as distinct media of communications. If each is delivered electronically and printed or displayed on a terminal in the home, what is the difference between a newspaper, a newsletter or a magazine? A telephone call to a dial-up information service could provide a response in audio, text-on-paper, or video as the customer desires. A telephone conversation shifts from voice to video in mid-conversation as a speaker wishes to illustrate a point. A computer program helps a child with math homework and includes extensive on-screen video illustrations precisely matched to the student's learning style. When the local newspaper provides a newswire to a video terminal in the home, and the reader clicks his cursor on the illustration for the lead story to observe an event in high resolution motion and sound, how does that medium differ from what we once knew as local television news? Some individuals prefer to read their news because it is easier to scan, and switch to video to catch visual nuance in a public event or speech. Others prefer to watch a video-newscast, pausing to call up text occasionally to read more carefully, for example, the new regulations on home office tax deductions. (The growth of home offices may well be related to the digital revolution.)
- 3) <u>Mass Communications—Personal Communications</u>. For the last century mass communicators have piped their messages onto the electronic ether or into the stream of paper flowing onto newsstands and through the mails. The digital revolution changes all of this. The distinction between one-to-many mass communications and one-to-one personal communications collapses.

The present day model for the evolving broadband electronic network is the telephone system. Think about it for a moment. You have on your desk a small device with the capacity to connect you instantaneously to anybody in the industrialized world. There are a few

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constraints. It is low-bandwidth audio only. You can call only one person at a time. You have to know their phone number. The called party has to be available and willing to answer.

In a digital world, the nature of these constraints is changed dramatically. You are free to send CD quality audio, text, graphics, and video. (You can send the equivalent of two hours of video or a 16-volume encyclopedia in a few seconds if you wish.) You can call as many people as you want simultaneously. The nature of a phone number changes and becomes more like a magazine subscriber list or electronic mail interest-group directory. But indeed, the called party still has to be available and willing to respond. This final factor is, of course, the key variable in the new media environment. What, then, are the policy ramifications of these technical developments? How does technological integration lead to institutional integration and economic mergers? That will be our focus in the following discussion.

The Growth of MegaMedia

The transition from traditional to new media pits a technological engine against a phalanx of vested interests, if effect, all of the old media monopolies. The traditional monopolists are in a difficult position. On the one hand they want to prop up, sustain and protect their monopoly as long as possible. On the other hand, they want to find an electronic way into what was once somebody else's monopoly communications channel. Each of these players is ill-equipped for this process because they are bound up in taken-for-granted assumptions about media economics and audience choice which evolved into received wisdom in their traditional media domain.

This has led thus far to a relatively conservative and defensive strategy for most international corporate players. The established companies have impressive stories at hand about new media failures and the strength of existing media. Take videotex, for example. Between 1978 and 1985, newspapers and telephone companies (most notably Knight-Ridder is south Florida, Times Mirror in southern California and AT&T in New Jersey) pumped hundreds of millions of dollars into slow, difficult to read, difficult to use and expensive home information terminals. They discovered that people preferred newspapers to videotex and pronounced home information terminals an officially dead duck. But that is Type II error, a false negative. Consumers are responding to the implementation, not the underlying concept. When home information terminals become responsive, easy to read, easy to use and cheap, they will indeed be used. Because the information was electronically delivered, it was assumed it would be electronically displayed. In the videotex tests there was virtually no conception of home printing. As

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it turns out, users greatly value the option of reading off-screen or off-paper depending on content and circumstance.

There have been similarly dramatic failures of early prototypes of DBS television (high-powered, direct-to-home satellite broadcasting), videodiscs, interactive television and videotelephones to further temper the entrepreneurial endocrinology of the Mergers and Acquisition Departments around the world. But gradually the industry began to recognize that these were failures of implementation rather than fundamental conception. As more and more of the corporate players made strategic investments in or developed joint ventures with each other, a new cultural dynamic begins to dominate the boardroom — the train is leaving the station, if we do not ally ourselves with other first-rate companies, we will be left behind. The Battle of the Goliaths — the telcos vs the cable industry, the newspapers vs any electronic medium which threaten its turf — is transformed.

- Time Warner and U.S. West construct a significant joint venture. A Telco and a cable and entertainment company working together. Unprecedented.
- Southwestern Bell buys two large cable systems in Virginia. A
 Telco owning a cable television system. Also unprecedented.
 It is perfectly legal, as the systems are outside
 Southwestern's telephone service area.
- BellSouth invests in Texas-based Prime cable. As a small (\$250 million) investment, it is quickly overshadowed by the (thus far) mother of all media deals --
 - Bell Atlantic-TCI. The cover of Business Week had a one-word headline: "Wow!" This one really sets up a new paradigm for aggressive, large-scale mergers. Although the policy review is yet to itself play out, the initial reading would seem to be that if, as promised, they spin off the cable systems within Bell Atlantic's service area, they may well win regulatory approval. TCI's Malone insists that he is more interested in this merger than his support for QVC's attempt to take over Paramount Communications, but in the longer run, the merging of hardware and software strengths may prove to be the trademark of the merger mania.
- Paramount-QVC-Viacom. As this is being written, we are witnessing a classic proxy battle as two cable giants with large supporting casts of strategic corporate investors from cable and telephony duel over one of the last motion picture producing companies not yet part of a megamedia keiretsu.

These developments add to an already interesting international brew of fermenting corporate malt emerging from the past several years.

- Australian-born, British Newspaper mogul (and for technical reasons recently Americanized) Rupert Murdoch buys the 20th Century Fox movie studio and newly emerging "4th" American television network, Fox Broadcasting.
- · SONY buys CBS records and the Columbia Pictures Studios
- · Matsushita buys MCA Universal Studios.

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 Toshiba and C. Itoh make a significant multi-billion dollar investment in Time Warner.

The Time Warner merger is itself already a symbol of the MegaMedia mentality. At the time of the merger, then Time-CEO Richard Munro predicted that by the end of the 1990s there would be only four or five dominant global media conglomerates. What if he is right? What are the social and policy ramifications?

The Policy Ramifications of the MegaMedia Revolution

There are, in my view, two primary and a number of secondary ramifications of the merger mania which deserve serious consideration. It is particularly important that they receive a full and public airing and examination before a radical change in the ownership and management of the information/communications commons of the world becomes a fait accompli.

1) Protecting a Diversity of Voices in the Public Domain.

This must be a central concern. Critics of capitalist media structures have for years argued that it does not really matter how many different capitalists owned how many different media outlets. Without a meaningful diversity of ownership and control, the range of intellectual and political diversity to make its way through the corporate filtering process is likely to be seriously constrained. They have a point. But the potential existence of a single conglomerate voice or a de facto duopoly is most certainly even less desirable.

The corporate dinosaurs, the newspaper industry for example, have been proclaiming a righteous concern about protecting a diversity of public voices especially if the telephone companies are permitted to enter the information business. It is ironic. Policy researchers who raise the diversity issue, may find themselves the political allies of older media institutions who simply feel threatened by economic change and electronic competition.

The key to a meaningful and effective policy role in times of dramatic structural change is to shape the incentives and structures of the change, not to become allies with those who would attempt to hold back the tide.

2) Protecting Equitable Access.

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By access to the electronic network I mean two things-Access to Information, and
The Right to Communicate.

This will require a rethinking of the fundamental tenets of the First-Amendment, broadcast and common carriage traditions of communication regulation. Ithiel de Sola Pool's seminal <u>Technologies of Freedom</u> published in 1983 forcefully raised this issue. But Pool's primary concern, perhaps more appropriate at that point in time, was to protect a diversity of voices from government intervention and censorship. But as the distinctions between common carriers, publishers and broadcasters melt away as an artifact of receding technologies, where is our vision of a bedrock policy, an electronic First Amendment?

As human communication migrates from the traditional one-way communication conduits of pamphlets, newspapers, books, recordings, radio and television to a two-way, broadband digital network of networks, we need to formulate a new and appropriate first principle of the right to listen complemented by the right to talk.

For the next decade or so we will watch well-intentioned people struggle to fit a new economic and technological reality into an old policy paradigm. It will be a painful process as individuals only slowly come to recognize that the old orthodoxies about press freedom and universal service no longer make sense. Some ardent spokespersons, I predict, will call for a common carriage model whereby communications providers are required to reserve a certain percent of their capacity for educational and community access "channels." It is a familiar prescription and, I suspect, will meet with all the success that the American educational set-aside in UHF broadcasting and the access cable channels enjoyed. The problem with that approach, in my view, is that it sticks too closely to the idea of broadcast channels, a notion much less relevant for a switched digital environment wherein senders and receivers negotiate electronically about who wants to read or view what, when do they want it and for what price. When telephony and broadcasting merge, a TV program and a telephone call are they same thing. Send your public interest documentary without charge to all who might want to view it. Send a sitcom without charge but with embedded commercial messages. Make an expensively produced cultural production available for those who are will to pay the necessary charge. Special interest cultural productions not possible in a public or commercial broadcast environment will now be economically viable. In such an environment, I argue, bandwidth is abundant and control of a "channel" is meaningless. The challenge to the would-be speaker is to get the attention of the would-be listener. The policy challenge is to design

and protect an open commons and level playing field where intellectual property flows freely whether it is independently supported, publicly supported, commercially supported or pay-per-view.

I argue that a diversity of voices and equitable access ought to be the primary focus of communications policy research and development. Other matters are secondary. By way of explanation, I will review several other areas of intense policy debate; but my contention is that if the diversity and access questions are appropriately addressed, these other matters will resolve themselves.

3) Concern Over Transborder Data Flows.

No one questions the right of a nation state to control the flow of people and physical goods at its borders. That is why departments of immigration and customs exist. But what about the flow of ideas, of information and communication that approach a nation's border? For the first two centuries of the industrial revolution, the capacity to effectively communicate long distances electronically was greatly constrained. Undersea cables have physical points of landing which can be licensed and policed. With the exception of shortwave radio (which is susceptible to jamming) broadcasting is local. Most of the other mass media are physically produced as printed or recorded products which can be inspected and confiscated at international boundaries.

But with the growth of satellite, and especially DBS satellite technologies, and the explosion of wireline and wireless data networks, the capacity of a nation state to police its informational boundaries is diminished. Walter Wriston, observing the proliferation of electronic networks, calls it the "twilight of sovereignty."

The attempt of nation states to protect the barricades, to define "who is us," and even to prohibit foreign direct investment in the communications and information industries is doomed to failure. Better that policy attention be devoted to the issues of diversity and access. Let the question of control be determined by a competitive marketplace.

4) The Protection of Local and Indigenous Culture.

This is, of course, a related concern. It focuses, however, on the general dominance of American-produced commercial/entertainment mass culture. How are smaller and developing nations to protect themselves from the onslaught of Hollywood?

The traditional answer is to legally mandate that 50% (or some similar proportion) of programming or publishing have locally produced content. The Canadians, the French and some third world nations have experimented with this approach to policy. But I would argue, as well, that is equally doomed to failure.

Here, however, there is an attractive alternative policy option, for regional and national governments who would wish to nurture local

cultural initiatives as well as diversity — subsidize production. The Canadian and Australian Film Boards, for example, have achieved remarkable success. Not surprisingly, when the product is intellectually and commercially attractive, the MegaMedia conglomerates fall over each other in an attempt to buy up the subsidiary rights and to contract for distribution. But that brings us back to a central theme. Without a multiplicity of corporate players, of whatever national origin, there would be no competition for the right to distribute.

5) Universal Service.

How will poor and sparsely settled regions of the world's nations be guaranteed access to the evolving national and international information infrastructures. Is there not an legacy of commitment to universal service? Is there not a principle of subsidy and costaveraging to support rural and remote regions?

There is indeed such a legacy, but the spirit of that legacy is best served by a new approach to policy rather than a desperate clinging to old orthodoxies. It is worth noting, drawing on the American case, that universal service as a concept evolved out of a self-interested deal by Theodore Vail representing AT&T and the American federal bureaucracy in 1913, the Kingsbury Commitment. Vail traded a promise to provide telephone service to all who wanted it at regulated prices for protection from competition. Vail's successors lived up to the deal. Indeed it made sense for both parties for half a century. But no longer.

If the megamergers take place as predicted, then the telephone, cable, broadcast and satellite providers for a given region will each be competing to provide communications, transaction and intellectual property services. Because of the use of advanced wireless (and satellite) transmission techniques, the cost of getting service to remote areas is a factor of two or three, no longer a factor of two hundred as in the days of coax and twisted pair. The awkwardness, slow pace and inefficiencies of tarriffed service provision is no longer justifiable. An engine of competition, real competition between well-financed and technologically aggressive competitors is a better means to a universal service end.

6) The Protection of Privacy.

Should we not be concerned that the evolving MegaMedia companies which provide us entertainment, news and home shopping might have the incentive to abuse their access to information on the economic and intellectual tastes of their customers? Will customers become captives of commercial direct-marketing monsters?

The issue of protection of privacy is certainly worthy of sustained attention and research. We have the case of Prodigy's on-line

service attempting to censor and disconnect customers who had the temerity to raise questions about a service price increase on a Prodigy electronic bulletin board. We confront the prospect of Automatic Number Identification making a discreet "just-looking" electronic inquiry turn into an unwanted electronic sales pitch. The incentive for abuse is there. What are the policy options?

If one response is some sort of regulation which purports to slap the hand of electronic privacy offenders, I am unenthusiastic. It is likely to be ineffective. In my view, the best medicine is meaningful competition among vendors such that those who try to cut corners on the privacy issue are publicized. Although it sounds like something less than a powerful legal remedy, it is likely, in fact, to be much more powerful in its effect on the long term incentives for the communications vendors. Again, returning to our central theme-- If meaningful competition on a level playing field is achieved, if policy is based on protecting a diversity of voices and equitable access for those who wish to talk and who wish to listen is obtained, the subsequent public policy concerns will be addressed.

A Concluding Note.

Issues of diversity and of access, in my view, should be addressed directly and receive sustained attention by the policy community. If questions of national pride and local sovereignty dominate the political debate, and I suspect they will, we need to try to steer those debates back to the fundamentals. Neither diversity nor equitable access are the inevitable outcome of the new media revolution. To be achieved, they will require self-conscious attention and sophisticated political support.

To try to mandate or censor media content is Sisyphean. That does not mean, however, that no central vision of communication policy for the electronic age is possible. The vision, I argue, must be structural rather than content based. If there is to be an electronic highway, make sure there is more than one. Make sure there is more than two. Design incentives and rewards in the domain of electronic communication so as many conduits as possible prove to be economically viable.

In the boardrooms of the MegaMedia corporations through elaborate charts and diagrams they envision an electronic highway to all of the homes of world. But within these mahogonied halls, they imagine that the competition will wither away, be co-opted, or simply be bought. They dream of owning and controlling a single highway to the home, a politically finessed, virtual electronic monopoly. This is where the communications policy community and the public must step forward. Time for a wake-up call.

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Bibliography

Alexander, Garth, and Judy Brennan. 1991. "The Global Moguls." <u>Variety</u>. October 21.

Auerbach, Alan J., ed. 1988. Mergers and Acquisitions. San Diego: Academic Press.

Auerback, Marshall. 1991. "Japan Inc.'s Days Are Numbered." Wall Street Journal. September 3.

Besen, Stanley M., Thomas G. Krattenmaker, Jr. A. Richard Metzger, and John R. Woodburg. 1984. <u>Misregulating Television</u>. Chicago: University of Chicago Press.

Bielby, William T., and Denise D. Bielby. 1988. "From Market to Hierarchy: Industrial Change and the Employment Relation in Television Production." American Sociological Association Annual Conference. San Francisco.

Boyer, Peter J. 1988. "What a Romance." New York Times Sunday Magazine. September 18.

Bremmer, Brian, Kathy Rebello, Zachary Schiller, and Joseph Weber. 1991. "The Age of Consolidations." <u>Business Week</u>. October 14.

Bressand, Albert. 1987. "Globalization at the Crossroads." Project Promethee Perspective No. 4. Paris: Promethee.

Carter, Bill. 1991. "Brave New TV World: 300 Channels." New York Times. May 13.

Carter, Bill. 1991. "Cable Networks See Dimmer Future." New York Times. July 22.

Compaine, Benjamin, ed. 1982. Who Owns the Media? White Plains, N.Y.: Knowledge Industries Press.

Compaine, Benjamin. 1991. The Future of Media Companies in the International Arena. Cambridge MA: Samara Associates.

Compaine, Benjamin M., ed. 1988. <u>Issues in New Information Technology</u>. Norwood NJ: Ablex.

CSP International. 1987. "Deregulation of the Radio Spectrum in the UK." London: Her Majesty's Stationery Office.

Fabrikant, Geraldine. 1990. "For Cable Systems, the Takeover Frenzy Cools." New York Times. January 22.

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Fabrikant, Geraldine. 1990. "The Hole in Hollywood's Pocket." New York Times. December 10.

Feder, Barnaby J. 1991. "Baby Bells Cautious on Data Service." <u>New York</u> Times. October 9.

Ferguson, Charles H. 1990. "Computers and the Coming of the U.S. Keiretsu." <u>Harvard Business Review</u> (July-August):55-70.

Fisher, William. 1989. "Time-Warner Linkup as a Pre-Emptive Strike." Wall Street Journal. March 27.

Goldman, Kevin. 1991. "Sellers Are Finding the Price Isn't Right For Their Television Stations These Days." Wall Street Journal. May 7.

Griggs, Robyn. 1991. "The Myth of Global Media." Mediaweek (May 20):37-40.

Guider, Elizabeth. 1991. "Fox Global Gets Guarded Reaction." <u>Variety</u>. October 21.

Johnston, Russell, and Paul R. Lawrence. 1988. "Beyond Vertical Integration: The Rise of the Value-Adding Partnership." <u>Harvard Business Review</u> 66(4):94-104.

Jones, Alex S. 1991. "Rethinking Newspapers." New York Times. January 6.

Krugman, Paul. 1990. The Age of Diminished Expectations. Cambridge: MIT Press.

Landler, Mark, Walecia Konrad, Zachary Schiller, and Lois Therrien. 1991. "What Happened to Advertising?" <u>Business Week</u>. September 23.

Landro, Laura. 1991. "Despite a Robust Basic Business, Picture Is Flawed for Cable TV." Wall Street Journal. March 21.

Landro, Laura, and Dennis Kneale. 1990. "Murdoch Seeks Strength From Within." Wall Street Journal. April 12.

Landro, Laura, and Randall Smith. 1991. "After Stock Debacle, Some Ask: Will Hubris Undo Time Warner?" Wall Street Journal. July 19.

Landro, Laura, and Richard Turner. 1990. "Matsushita Explores Purchase of MCA." Wall Street Journal. September 25.

Link Resources. 1991. "Technology and Marketing in the 1990s." New York: Link Resources.

Lowenstein, Roger. 1991. "After 2 Years, Time Warner Marriage Still Has to Bloom." Wall Street Journal. June 18.

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Malone, Thomas W., Joann Yates, and Richard I Benjamin. 1987. "Electronic Markets and Electronic Hierarchies: Effects of New Information Technologies on Market Structures and Corporate Strategies." Communications of the ACM 30(June):484-497.

Natale, Richard, and Charles Fleming. 1991. "Free-spending Studios Spread Wealth, Intrigue." <u>Variety</u>. September 9.

National Telecommunications and Information Administration. 1990.

Comprehensive Study of the Globalization of Mass Media Firms. Washington

DC: National Telecommunications and Information Administration.

Neuman, W. Russell. 1991. <u>The Future of the Mass Audience</u>. New York: Cambridge University Press.

Neuman, W. Russell, Lee McKnight, and Richard Jay Solomon. in press. <u>The Gordian Knot: Political Gridlock and the Communications Revolution</u>. Cambridge: MIT Press.

Noam, Eli M., ed. 1985. <u>Video Media Competition: Regulation, Economics and Technology</u>. New York: Columbia University Press.

Noglows, Paul, and J. Max Robins. 1991. "Finsyn Finish May See Merger Spree." Variety. March 11.

Ohmae, Kenichi. 1985. <u>Triad Power: The Coming Shape of Global Competition</u>. New York: Free Press.

Ohmae, Kenichi. 1989. "The Global Logic of Strategic Alliances." Harvard Business Review (March):143-154.

Peisi and others, Anton. 1990. "Can a Keiretsu Work in America." Harvard Business Review (September-October):180-197.

Picard, Robert G. 1989. Media Economics: Concepts and Issues. The Sage CommText Series. Newbury Park: Sage.

Picard, Robert G., Maxwell E. McCombs, James P. Winter, and Stephen Lacy, ed. 1988. <u>Press Concentration and Monopoly: New Perspectives on Newspaper Ownership and Operation</u>. Norwood NJ: Ablex.

Pool, Ithiel de Sola. 1983. <u>Technologies of Freedom</u>. Cambridge: Harvard University Press.

Porter, Michael E. 1980. <u>Competitive Strategy: Techniques for Analyzing Industries and Competitors</u>. New York: Free Press.

Porter, Michael E. 1985. <u>Competitive Advantage: Creating and Sustaining</u> Superior <u>Performance</u>. New York: Free Press. --

Porter, Michael E. 1990. The Competitive Advantage of Nations. New York: Free Press.

Reich, Robert B. 1990. "Who is Us?" <u>Harvard Business Review</u> (January-February):53-64.

Reich, Robert B. 1991. "Who is Them?" <u>Harvard Business Review</u> (March-April):77-89.

Reich, Robert B. 1991. The Work of Nations: Preparing Ourselves for 21st-Century Capitalism. New York: Knopf.

Reilly, Patrick M., Meg Cox, and Richard L. Hudson. 1991. "Media Mogul Maxwell Reveled in Growth, Now Must Scale Back." Wall Street Journal. September 13.

Salinger, Michael. 1988. "A Test of Successive Monopoly and Foreclosure Effects: Vertical Integration between Cable Systems and Pay Services."

New York: Columbia University.

Sanger, David E. 1989. "Sony Has High Hopes for Columbia Pictures." New York Times. September 28.

Sanger, David E. 1991. "Toshiba Rewrites a Hollywood Script." New York Times. October 9.

Scherer, F. M., and David Ross. 1990. <u>Industrial Market Structure and Economic Performance</u>, 3rd Edition. Boston: Houghton-Mifflin.

Setzer, Florence, and Jonathan Levy. 1991. "Broadcast Television in a Multichannel Marketplace." June. OPP Working Paper Series #26, Washington DC: Federal Communications Commission.

Shapiro, Eben. 1990. "Electronics Business Longing for a New Hit." <u>New York Times</u>. November 10.

Shapiro, Eben. 1991. "Will Intramural Squabbling Derail Debt-Ridden SONY?" New York Times. August 11.

Silk, Alvin J., and Ernst R. Berndt. 1991. "Scale and Scope Effects on Advertising Agency Costs." Cambridge MA: Harvard Business School.

Smith, Anthony. 1991. The Age of Behemoths: The Globalization of Mass Media Firms. New York: Priority Press.

Stevenson, Richard W. 1990. "In Hollywood, Big Just Gets Bigger." New York Times. October 14.

Storper, Michael, and Susan Christopherson. 1985. "The Changing Organization of the Motion Picture Industry." Los Angeles: UCLA.

SAY.

Vogel, Harold L. 1990. <u>Entertainment Industry Economics</u>, <u>2nd Edition</u>. Cambridge: Cambridge University Press.

Williamson, Oliver E. 1975. Markets and Hierarchies: Analysis and Antitrust Implications. New York: Free Press.

Williamson, Oliver E. 1985. The Economic Institutions of Capitalism: Firms, Markets, Relational Contracting. New York: Free Press.

Wirth, Michael O. 1986. "Economic Barriers to Entering Media Industries in the United States," in Margaret L. McLaughlin, ed., Communication Yearbook 9, Beverly Hills CA: Sage.

Wriston, Walter B. 1992. The Twilight of Sovereignty. New York: Scribner's.

Zachary, G. Pascal. 1991. "Apple Wants to Grow Far Beyond Its Core." Wall Street Journal. September 27.