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## Active Materials

**Item Type** Book

**Editor** Peter Fratzl

**Editor** Michael Friedman

**Editor** Karin Krauthausen

**Editor** Wolfgang Schöffner

**Abstract** What are active materials? This book aims to introduce and redefine conceptions of matter by considering materials as entities that ‘sense’ and respond to their environment. By examining the modeling of, the experiments on, and the construction of these materials, and by developing a theory of their structure, their collective activity, and their functionality, this volume identifies and develops a novel scientific approach to active materials. Moreover, essays on the history and philosophy of metallurgy, chemistry, biology, and materials science provide these various approaches to active materials with a historical and cultural context. The interviews with experts from the natural sciences included in this volume develop new understandings of ‘active matter’ and active materials in relation to a range of research objects and from the perspective of different scientific disciplines, including biology, physics, chemistry, and materials science. These insights are complemented by contributions on the activity of matter and materials from the humanities and the design field.

**Date** 2021

**Language** en

**Library Catalog** Panel on Planetary Thinking

**Call Number** 009 CC 3700 F844

**URL** <https://doi.org/10.1515/9783110562064>

**Place** Boston

**Publisher** De Gruyter

**ISBN** 978-3-11-056181-4

**Edition** 1

**# of Pages** 372

**Date Added** 1/11/2023, 6:03:54 PM

**Modified** 8/14/2025, 12:55:00 PM

### Tags:

Philosophy of Science, Sociology of Knowledge, History of Science, Material Science, Sociology of Technology, MATERIAL

### Attachments

- Fratzl et al. - 2021 - Active Materials.pdf

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## Arte Povera: Pinault Collection

**Item Type** Book

**Editor** Carolyn Christov-Bakargiev

**Abstract** At the intersection of heritage and influence, the exhibition showcase more than 250 artworks, historical, contemporary and inspired by this major Italian artistic movement in the 1960's. « Arte povera » enlighten its Italian birth as much as its international influence through the work of thirteen main artists of the movement : Giovanni Anselmo, Alighiero Boetti, Pier Paolo Calzolari, Luciano Fabro, Jannis Kounellis, Mario Merz, Marisa Merz, Giulio Paolini, Pino Pascali, Giuseppe Penone, Michelangelo Pistoletto, Emilio Prini et Gilberto Zorio. The Arte povera catalogue follows the exhibition path and begins with a section specifically conceived for the occasion by five artists (Giulio Paolini, Michelangelo Pistoletto, Gilberto Zorio, Pier Paolo Calzolari et Giuseppe Penone). An introduction text by Carolyn Christov-Bakargiev, the exhibition curator, and extended essays by Fabio Cafagna, Gabriele Guercio, Marcella Beccaria, Nicolas-Xavier Ferrand, Riccardo Passoni and Silvia Maria Sara Cammarata, accompany a series of photographs showing the peak of the movement through exceptional images of the artists, their studios and exhibitions. The publication presents all twenty-four display cases of the Passage, welcoming for the occasion works from Arte povera pioneers and, in dedicated chapters, the thirteen artists displayed in the Rotonde. It ends with a presentation of the work of thirteen artists who were inspired and influenced by the Arte povera.

**Date** 2024

**Language** fre eng

**Short Title** Arte Povera

**Library Catalog** Panel on Planetary Thinking

**Call Number** 000 LH 47000 2024 A78

**Place** Paris

**Publisher** Éditions Dilecta Pinault Collection

**ISBN** 978-2-37372-206-2

**# of Pages** 354

**Date Added** 2/20/2025, 1:26:26 PM

**Modified** 8/8/2025, 5:37:12 PM

### Tags:

Art, Arte povera, Italian Artistic Movement, Exhibition, Curation, MATERIAL

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## Die Sonne kommt näher: Otto Piene. Frühwerk

**Item Type** Book

**Editor** Otto Piene

**Editor** Barbara Engelbach

**Editor** Museum für Gegenwartskunst Siegen

**Abstract** Der Katalog erscheint anlässlich der gleichnamigen Ausstellung vom 25.5.-7. September 2003 im MGKSiegen. Der 1928 im nordrheinwestfälischen Bad Lassphe geborene Piene ist ab Mitte der 1950er-Jahre auf der Suche nach neuen künstlerischen Ausdrucksmitteln und -formen. 1958 gründet er zusammen mit Heinz Mack die Gruppe ZERO, der sich drei Jahre später auch Günther Uecker anschliesst. Gemeinsam propagieren sie in zahlreichen Ausstellungen und Happenings einen Neuanfang in der Kunst. Besonders fasziniert sind die ZERO-Künstler vom Medium Licht. Piene wird sich sein ganzes Leben lang damit beschäftigen.

**Date** 2003

**Language** de

**Short Title** Die Sonne kommt näher

**Library Catalog** Panel on Planetary Thinking

**Call Number** 009 LI 67120 E57

**Extra** Meeting Name: Ausstellung Die Sonne Kommt Näher. Otto Piene. Frühwerk

**Place** Siegen

**Publisher** Museum für die Kunst der Gegenwart Siegen e.V

**ISBN** 978-3-935874-04-5

**# of Pages** 63

**Date Added** 2/21/2024, 3:39:55 PM

**Modified** 8/8/2025, 6:00:04 PM

**Tags:**

Art, MATERIAL

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## Energy and Change: A New Materialist Cosmotheology

**Item Type** Book

**Author** Clayton Crockett

**Abstract** "Contemporary western philosophy of religion--at least of the continental sort--has turned sharply away from its roots in Christian theology and embraced New Materialism, non-Western and indigenous spiritual traditions, the Anthropocene, and the insights of epigenetics, quantum theory, and astrophysics. This materialist turn is also deeply political--in this, our only aleatory and contingent world, confronted by a perfect storm of crises and a collective paralysis in the face of change--in the words of another kind of materialist, Vladimir Lenin, what is to be done? In this new formulation, informed by Whitehead, Merleau-Ponty, Althusser, and Deleuze and in contrast to others grounded in the human, matter, with its self-organizing properties interacting with nonlinear causes, capable of unexpected novelty, is foundational. Put differently, nothing more is needed to get change than the chance workings of material reality; difference is integral to identity. Relating this perspective to the intractable global conditions we face, Clayton Crockett suggests that we begin with energy as a material process. We may not know how to define it, but we can describe its effects. Beyond our planet, in the form of dark energy--three-quarters of of the known universe--it becomes expansive rather than entropic; singularities are produced that

transform systems. We see this process in the operations of natural selection, and it is also present in human social, economic, and political operations. Everything is at stake, including the affective, ethical, and spiritual forces that can motivate energetic transformation. Many indigenous cultures do not see the world in material and spiritual binaries; matter and energy, as Latour and Barad have argued, have agential power. In our future we may not survive, but energy, in its multiplicity, will endure"--

**Date** 2022  
**Language** en  
**Short Title** Energy and Change  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 MS 1290 C938  
**Place** New York  
**Publisher** Columbia University Press  
**ISBN** 978-0-231-20610-5 978-0-231-20611-2  
**Series** Insurrections : critical studies in religion, politics, and culture  
**# of Pages** 291  
**Date Added** 1/15/2023, 1:38:37 PM  
**Modified** 8/12/2025, 5:21:34 PM

### Tags:

Philosophy, Religion, Materialism, Change, MATERIAL

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## Mineralien

**Item Type** Book  
**Author** Martin Haubenreißer  
**Contributor** Hans-Ulrich Beyer  
**Author** Judith Schalansky  
**Abstract** Nicht erst seit den barocken Naturalienkabinetten gelten die Millionen Jahre alten Mineralien als Wunder der Natur, deren kristallisierte Geometrie eine geradezu magisch schöne Ordnung anorganischer Materie offenbart, die Kunst und Wissenschaft stets aufs Neue in ihren Bann gezogen hat. Der leidenschaftliche Sammler Martin Haubenreißer malt seit drei Jahrzehnten Mineralstufen – maßstabsgetreu und zu eindrucksvollen Bildtafeln komponiert, in der detailgetreuen Tradition naturkundlicher Illustration: den korallenroten Krokoit, den blau-milchigen Achat, die goldglänzenden Kuben des Pyrits, die rundlichen Massen flaschengrünen Malachits oder die Säulen des transparenten Turmalins, vor allem aber die vielfarbigen und vielgestaltigen Fluorite aus vornehmlich sächsischen Bergwerken. Gerade weil seine naturgetreuen Aquarelle die Stücke nicht idealisieren, sondern Fehlstellen ebenso zeigen wie die zu den Stufen gehörigen, die Provenienz verratenden Etiketten, werden in Haubenreißers Illustrationen die Individualität und die Geschichtlichkeit jeder einzelnen Mineralstufe erfahrbar. Seine meisterhaften wie feinfühligsten Tafeln, die hier erstmals in Buchform veröffentlicht werden, vergegenwärtigen auf prachtvolle Weise die schöpferische und ästhetische Kraft unvorstellbar langsamer, geologischer Prozesse, die jedes einzelne

Element, jede chemische Verbindung hervorgebracht hat. In einem Moment, in dem die Menschheit die Vorkommen fast erschöpft und die meisten Gruben versiegelt hat, sind die Mineralien Zeugnis einer in die Anfänge des Planeten zurückreichenden übergeordneten Zeitlichkeit.

**Date** 2022  
**Language** ger  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 UQ 6120 H368  
**Place** Berlin  
**Publisher** Matthes & Seitz  
**ISBN** 978-3-7518-0200-0  
**Series** Naturkunden  
**Series Number** No. 79  
**# of Pages** 413  
**Date Added** 1/28/2025, 11:37:54 AM  
**Modified** 8/8/2025, 6:45:44 PM

**Tags:**

Natural History, Geology, Minerals, MATERIAL

**Notes:**

Hier auch später erschienene, unveränderte Nachdrucke

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## New Materialisms: Ontology, Agency, and Politics

**Item Type** Book

**Editor** Diana H. Coole

**Editor** Samantha Frost

**Abstract** New Materialisms brings into focus and explains the significance of the innovative materialist critiques that are emerging across the social sciences and humanities. By gathering essays that exemplify the new thinking about matter and processes of materialization, this important collection shows how scholars are reworking older materialist traditions, contemporary theoretical debates, and advances in scientific knowledge to address pressing ethical and political challenges. In the introduction, Diana Coole and Samantha Frost highlight common themes among the distinctive critical projects that comprise the new materialisms. The continuities they discern include a posthumanist conception of matter as lively or exhibiting agency, and a reengagement with both the material realities of everyday life and broader geopolitical and socioeconomic structures. Coole and Frost argue that contemporary economic, environmental, geopolitical, and technological developments demand new accounts of nature, agency, and social and political relationships; modes of inquiry that privilege consciousness and subjectivity are not adequate to the task. New materialist

philosophies are needed to do justice to the complexities of twenty-first-century biopolitics and political economy, because they raise fundamental questions about the place of embodied humans in a material world and the ways that we produce, reproduce, and consume our material environment.

**Date** 2010  
**Language** en  
**Short Title** New Materialisms  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 MS 4715 F939  
**Place** Durham [NC] ; London  
**Publisher** Duke University Press  
**ISBN** 978-0-8223-4753-8 978-0-8223-4772-9  
**# of Pages** 336  
**Date Added** 1/10/2024, 3:57:29 PM  
**Modified** 8/12/2025, 3:48:48 PM

**Tags:**

Political aspects, Ontology, Agent (Philosophy), Materialism, MATERIAL

**Notes:**

Introducing the new materialisms / Diana Coole and Samantha Frost -- The force of materiality : a vitalist stopover on the way to a new materialism / Jane Bennett -- Nondialectical materialism / Pheng Cheah -- The inertia of matter and the generativity of flesh / Diana Coole -- Impersonal matter / Melissa A. Orlie -- Political matters : feminism, materialism, and freedom / Elizabeth Grosz -- Fear and the illusion of autonomy / Samantha Frost -- Materialities of experience / William E. Connolly -- The politics of "life itself" and new ways of dying / Rosi Braidotti -- Economies of disruption : the elusive material : what the dog doesn't understand / Rey Chow -- Orientations matter / Sara Ahmed -- Simone de Beauvoir: engaging discrepant materialisms / Sonia Kruks -- The materialism of historical materialism / Jason Edwards

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## Otto Piene: Wege zum Paradies. Paths to Paradise

**Item Type** Book  
**Author** Otto Piene  
**Author** Lauren Elizabeth Hanson  
**Author** Mary Hale  
**Author** Barbara Könches  
**Author** Tina Rivers Ryan  
**Author** Sandra Beate Reimann  
**Author** Roland Wetzel  
**Contributor** Museum Tinguely

**Abstract** Der reich illustrierte Band zeichnet Pienes Vision anhand seiner wichtigsten Projekte und Werkserien aus seiner Zeit in Deutschland und den USA nach. Dabei stehen Werke unterschiedlicher medialer Gattungen, wie kinetische Skulptur, Film, Malerei oder Performance, miteinander und insbesondere mit seiner stetigen Praxis des Zeichnens und Skizzierens im Dialog. Mit Texten von Piene-Expertinnen aus Europa und den USA bietet der Band einen ebenso umfassenden wie frischen Blick auf das Schaffen des vielseitigen Künstlers.

**Date** 2024

**Language** ger eng

**Short Title** Otto Piene - Wege zum Paradies

**Library Catalog** Panel on Planetary Thinking

**Call Number** 009 LI 67120 H251

**Place** München

**Publisher** Hirmer

**ISBN** 978-3-7774-4253-2 978-3-907228-12-8

**# of Pages** 288

**Date Added** 4/10/2024, 10:16:37 AM

**Modified** 8/8/2025, 4:39:49 PM

### Tags:

Art, Otto Piene, MATERIAL

### Notes:

Dieser Katalog erscheint anlässlich der Ausstellung "Otto Piene. Wege zum Paradies", Museum Tinguely, Basel, 7. Februar-12. Mai 2024

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## Parallel Minds: Discovering the Intelligence of Materials

**Item Type** Book

**Author** Laura Tripaldi

**Abstract** Insights into the intelligence throughout the natural and technical environment, in the fabric of our devices and dwellings, in our clothes, and under our skin. Is there a way to understand the materials that surround us not as passive objects, but as other intelligences interacting with our own? In *Parallel Minds*, expert in materials science and nanotechnology Laura Tripaldi delivers not only detailed insights into the properties and emergent behaviors of matter as revealed by state-of-the-art chemistry, synthetic biology, and nanotech, but also a rich philosophical reflection that crosses the frontier between nature and culture, where the most cutting-edge scientific syntheses resonate with ancient myth. The result is a technomaterial bestiary full of unexpected encounters with "strange minds"—from cobwebs to kevlar and carbon fibre, from centaurs to amoebas to arachnids, from polycephalic slime to resonating plasmons, from viruses to golems. *Parallel Minds* reveals the intelligence at large throughout the natural and technical environment, in the fabric of our devices and dwellings, in our

clothes, and even under our skin. Full of lateral ideas and unexpected images, Tripaldi's book imbues the study and synthesis of materials with a new urgency. For not only do the materials that surround us participate actively in the construction of the world in which we live, but harnessing their ability to interact intelligently with their environment could be the key to the future of our species.

**Date** 2022  
**Language** en  
**Short Title** Parallel Minds  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 CC 8280 T835  
**Place** Falmouth [England]  
**Publisher** Urbanomic  
**ISBN** 978-1-913029-93-7  
**# of Pages** 181  
**Date Added** 3/1/2023, 1:26:46 PM  
**Modified** 8/13/2025, 1:11:31 PM

### Tags:

Philosophy, Intellect, Natural Sciences, Material Science, MATERIAL, New Materialism

### Notes:

Originally published as "Menti Parallele" effequ 2021

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## The Life of Things, The Love of Things

**Item Type** Book  
**Author** Remo Bodei  
**Author** Murtha Baca  
**Abstract** From prehistoric stone tools, to machines, to computers, things have traveled a long road along with human beings. Changing with the times, places, and methods of their production, emerging from diverse histories, and enveloped in multiple layers of meaning, things embody ideas, emotions, and symbols of which we are often unaware. The meaning of "thing" is richer than that of "object," which is something that is manipulated with indifference or according to impersonal technical procedures. Things also differ from merchandise, objects that can be sold or exchanged or seen as status symbols. Things, in the philosophical sense, are nodes of relationships with the life of others, chains of continuity among generations, bridges that connect individual and collective histories, junctions between human civilizations and nature. Things incite us to listen to reality, to make them part of ourselves, giving fresh life to an otherwise suffocating interiority. Things also reveal the hidden aspect of a "subject" in its most secret and least explored side. Things are the repositories of ideas, emotions, and symbols whose meaning we often do not understand. In an unexpected but coherent journey that includes the visions of classic philosophers from Aristotle to Husserl and

from Hegel to Heidegger, along with the analysis of works of art, Bodei addresses issues such as fetishism, the memory of things, the emergence of department stores, consumerism, nostalgia for the past, the self-portraits of Rembrandt and Dutch still-lives of the seventeenth century. The more we are able to recover objects in their wealth of meanings and integrate them into our mental and emotional horizons, he argues, the broader and deeper our world becomes

**Date** 2015  
**Language** en  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 CC 8200 B666  
**Extra** OCLC: ocn888556576  
**Place** New York  
**Publisher** Fordham University Press  
**ISBN** 978-0-8232-6443-8 978-0-8232-6442-1  
**Series** Commonalities  
**Edition** First edition  
**# of Pages** 133  
**Date Added** 1/14/2023, 7:45:02 PM  
**Modified** 8/8/2025, 4:41:15 PM

**Tags:**

Object (Aesthetics), Object (Philosophy), Political Theory, Materiality, MATERIAL

**Notes:**

Objects and things -- Opening up to the world -- Living nature

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## Thinking with Soils: Material Politics and Social Theory

**Item Type** Book  
**Editor** Juan Francisco Salazar  
**Editor** Céline Granjou  
**Editor** Matthew Kearnes  
**Editor** Anna Krzywoszynska  
**Editor** Manuel Tironi  
**Abstract** "This book presents a novel and systematic social theory of soil, and is representative of the rising interest in 'the material' in social sciences. Bringing together new modes of 'critical description' with speculative practices and methods of inquiry, it contributes to the exploration of current transformations in socioecologies, as well as in political and artistic practices, in order to address global ecological change. The chapters in this edited volume challenge scholars to attend more carefully to the ways in which they think about soil, both materially and theoretically. Contributors address a range of topics, including new ways of thinking about the politics of caring for soils ; the

ecological and symbiotic relations between soils ; how the productive capacities and contested governance of soils are deployed as matters of political concern ; and indigenous ways of knowing and being with soil"--

**Date** 2020  
**Language** en  
**Short Title** Thinking with Soils  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 MS 8950 S161  
**Place** New York  
**Publisher** Bloomsbury Academic  
**ISBN** 978-1-350-10957-5  
**Edition** 1  
**# of Pages** 220  
**Date Added** 1/11/2023, 6:22:36 PM  
**Modified** 8/13/2025, 1:10:14 PM

**Tags:**

Political ecology, Social Theory, Socioecology, MATERIAL, Soil

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## Was ist Natur? Annäherungen aus Kunst, Literatur und Wissenschaft

**Item Type** Book  
**Editor** Kathrin Meyer  
**Editor** Museum Sinclair-Haus  
**Editor** Stiftung Kunst und Natur gGmbH  
**Abstract** Was ist Natur? Elementare Kräfte, die Leben ermöglichen oder auch zerstören? Unbebautes Land, Maisfelder, ein unendlich scheinendes Reservoir an Rohstoffen? Sich selbst überlassene Gebiete in Städten oder am Rand von Flughäfen? Eine trillernde Lerche über bunten Wiesen oder gentechnisch veränderte Organismen? Der Versuch, eine Antwort zu finden, wirft eher neue Fragen auf. Nur eines scheint sicher: Reden wir von Natur, reden wir immer vom Verhältnis des Menschen zur Welt. So fordert die Frage: "Was ist Natur?" vor allem eine Auseinandersetzung mit uns selbst - mit unseren Vorstellungen von Schönheit, Lebendigkeit und Nutzen, mit unseren Werten und den Voraussetzungen, die menschlichen und nichtmenschlichen Wesen ein gutes Leben ermöglichen. Ökologische Krisen als Folge des Klimawandels oder das stark beschleunigte Aussterben von Pflanzen- und Tierarten zeigen deutlich, dass der Mensch Teil von Gefügen ist, sie maßgeblich prägt, aber auch von ihnen abhängt. Wie begreifen wir unsere Rolle, welche Verbindungen kennen wir noch nicht und welche blenden wir aus? In 13 Essays sowie in zahlreichen Auszügen aus Literatur und Lyrik werden die Vorstellungen von >Natur< detailreicher und konkreter. Sie zeigen die Gefüge und Verstrickungen der unterschiedlichen Lebewesen, und wie der Mensch als Ko-Gestalter globaler Lebensräume wirkt, in denen menschliche und nichtmenschliche Wesen einander begegnen und beeinflussen.  
**Date** 2020

**Language** de  
**Short Title** Was ist Natur?  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 MS 9000 M612  
**Place** Hamburg  
**Publisher** mairisch Verlag  
**ISBN** 978-3-938539-62-0  
**Series** Mairisch  
**Series Number** 78  
**Edition** 1. Auflage  
**# of Pages** 222  
**Date Added** 1/14/2023, 9:11:35 PM  
**Modified** 8/8/2025, 4:38:44 PM

### Tags:

Nature, Art, Literature, MATERIAL

### Notes:

Impressum: "Diese Publikation erscheint anlässlich der Ausstellung 'Was ist Natur?', Museum Sinclair-Haus, Bad Homburg v. d. H., 13. September 2020 bis 24. Januar 2021"

### Attachments

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## ZERO-Künstler Otto Piene: aus dem Kriegsdunkel zur Lichtkunst

**Item Type** Book  
**Author** Anette Kuhn  
**Abstract** Beschreibung Inhaltsverzeichnis Porträt Biografie prägt Kunst - aber wie? Anette Kuhn begibt sich auf Spurensuche und schildert in ihrem biografischen Essay das Leben des ZERO-Künstlers Otto Piene in den Jahren 1944 bis 1964. Geboren 1928, erlebte er als Kind und Jugendlicher Nationalsozialismus und Krieg - Erfahrungen, die seine Arbeiten stark beeinflussten. Anhand von Gesprächen, Interviews, Briefen und Texten setzt die Autorin das avantgardistische Kunstprojekt ZERO mit Pienes Erlebnissen aus Kindheit und Jugend in Beziehung. Für Piene ist ZERO, das er gemeinsam mit seinem Künstlerfreund Heinz Mack begründet - später kommt Günther Uecker hinzu -, die Replik auf die Erfahrung der Katastrophe von Nationalsozialismus und Krieg. In dem Essay entsteht aus Pienes persönlichen Äußerungen ein authentisches Bild der Jahre bis 1964. Seine kunsttheoretischen Reflexionen und rückblickenden Einschätzungen vermitteln einen Eindruck seiner Haltung zu Kunst und Welt. Anette Kuhn erschließt mit ihrem Text über den Erfinder von Lichtballett

und Sky-Art den historisch-biografischen Kontext der ZERO-Kunst für Lehrende, Forschende und Studierende.

**Date** 2023  
**Language** de  
**Short Title** ZERO-Künstler Otto Piene  
**Library Catalog** Panel on Planetary Thinking  
**Call Number** 009 LI 67120 K96  
**Place** Bielefeld  
**Publisher** Athena, wbv  
**ISBN** 978-3-7639-7404-7  
**# of Pages** 124  
**Date Added** 3/12/2024, 6:05:10 PM  
**Modified** 8/8/2025, 4:40:35 PM

### Tags:

Art History, ZERO Movement, MATERIAL

### Attachments

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