

# Air Affair: The Matter and Energy Dynamic in Reality

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Einstein's  $E=mc^2$  reveals that matter and energy are transforms of one another. Let's start out by taking that proposition seriously and explore the implications of how we conceive of Air in the world of matter and energy.

If air is not moving or we are not moving significantly within it, we basically experience "nothing" through our senses. So, since air as "nothing" is the default way we conceive of air, all visible material "things" exist within it as independent, separated phenomena. For the most part, we proceed in both life and science as if this condition of material separation is fundamental in reality.

Of course, intellectually most of us know air is not nothing. We are aware that air is composed of various gases made up of atoms and molecules that are collectively not large enough for us to perceive. Only when certain conditions apply and molecules accumulate can we discriminate things like fog, mist, rain, etc. But even when "things" precipitate out of the air, we do not view air itself as being material. Our view of air as vacuous supports the assumption of material separateness in our conceptions of reality and in our worldviews.

From the material perspective what is the difference between air and a rock? Answer: A rock is made up of atoms and molecules that are "heavier" than the atoms of air – greater mass, and these atoms and molecules are packed together more closely – greater density. This difference is significant, but it is relative, and we are well aware that our physical world comes in solid, liquid and gaseous forms with all qualifying as being material.

So, air – made up of different gases – is material. And because it is so "light" and "pliable," it has the important quality of being able to fill every space not occupied by solids or liquids. It is a material that is very "light," that we do not perceive for the most part, and that we mostly ignore when it comes to defining our reality in terms of separate material entities.

Of course, even air can be more and less "thin," to the point where "air" in interstellar space is composed mostly of a relatively few atoms of the lightest elements – hydrogen and helium. But, as "light" as "air" can become, there is no vacuum – no void, just more and less dense gaseous material.

Air is the less dense material medium invisible to humans that connects and ties the vast majority of material reality together at all scales.

Why is this important? Because, when properly understood, matter is everywhere all the time in our universe – just in different densities. There is nowhere it does not exist in one of its forms, and it is a completely interconnected, integrated phenomenon – the web of material reality. Separation and independence of “things” do not in fact exist – only our very limited perceptual capabilities with respect to material gasses make it seem so.

Conclusion: the material world is ONE totally unified material phenomenon. We carve it up into separate “things” and assume that the resulting conception constitutes reality. And we get away with it because we have to consume/take within this material fabric to survive biologically. Of course in our “taking” we are really just participating in the constant motion as every interconnected material “thing” changes/fluctuates/vibrates and/or “interacts” within the different densities of material Oneness.

Why is this understanding of material Oneness important? Because we now know that it is matched by the immaterial oneness of energy in the form of waves and fields which are also everywhere all the time and totally interconnected and integrated at every scale.

What then is the credible conception of reality? Reality is the totally integrated, universal, and infinite material-immaterial “oneness” of existence. Matter and energy are always at every scale completely integrated. They are totally interconnected with both being essential to the universal whole. We can approach understanding reality from one or the other perspective as if matter and energy are separate, but we are the ones carving out that separation.

Science has revealed a great deal about our reality. But it is time for it to stop artificially imposing on reality the “principle” of separation at every scale. Only for heuristic purposes should we permit ourselves to employ this perspective of separation. And it is time to seriously pursue the equal contribution that the immaterial energetic wave field domain makes at every scale in the “dialogue” between the material and immaterial. It is time to stop regarding energy fields as merely secondary manifestations of material phenomena and start examining how these immaterial fields combine and expand through every scale. If we do this, we may get a huge surprise: just as pure energy is posited as being primary in the universe’s origination [Bib Bang theory], so totally integrated energy fields may provide the glue binding the material realm together as well as being largely responsible for how material reality gets expressed at every scale.