

Why Low Carbon Steel is Strong

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Abstract: Since the establishment cannot provide a picture of why low carbon steel is strong the author of this paper will. Just saying "strengthening the crystal lattice" and then showing math equations is not an explanation.

Low carbon steel is strong in the same way fiberglass and/or rebar is added to concrete to make it strong too. The carbon forms long chains that make the iron more brittle, but much, much stronger to materials stress when supporting a structural load. Therefore the reader can be familiar with why things are as they are. If there are other elements that form long chains of molecules such as tellurium or selenium then they can be used too to provide strength to other types of materials. Most of this kind of understanding is kept from the public for industrial/profit purposes but should be made available because it is so easy to understand.



This is fiberglass in concrete. This is the same structural idea with which carbon strengthens iron to make steel.