

Fusion

FUNCTION: Fusion is the process by which two or more atomic nuclei combine to form a single nucleus with a mass less than the sum of the individual masses. This process releases energy, as described by Einstein's famous equation, $E=mc^2$. Fusion is the primary energy source for stars, including our Sun, and is the basis of hydrogen bombs. It is also the subject of ongoing research and development, with the goal of achieving controlled fusion for energy production. The process involves heating a gas of hydrogen isotopes to extremely high temperatures and pressures, creating a plasma state. The goal is to achieve a self-sustaining reaction that releases more energy than it consumes.

Fusion

Physics of a Fundamental Energy Source

ENERGY SOURCES & CONVERSIONS

(AN OVERVIEW OF ENERGY CONVERSION PROCESSES)

Energy can take on many forms, and various processes convert one form into another. This table shows the primary energy sources and the processes that convert them into usable energy.

Source	Conversion	Usable Energy
Chemical	$\text{Fuel} \rightarrow \text{Heat} \rightarrow \text{Electricity}$	Electricity
Geothermal	$\text{Heat} \rightarrow \text{Steam} \rightarrow \text{Electricity}$	Electricity
Nuclear	$\text{Fission} \rightarrow \text{Heat} \rightarrow \text{Steam} \rightarrow \text{Electricity}$	Electricity
Solar	$\text{Sun} \rightarrow \text{Photovoltaic} \rightarrow \text{Electricity}$	Electricity

Physical Parameters of Energy-Releasing Reactions

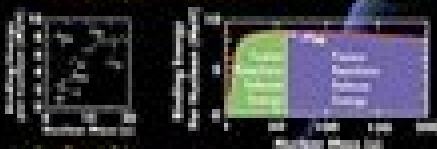
Reaction Type	Chemical	Fusion	Fission
Sample Reaction	$\text{C} + \text{O}_2 \rightarrow \text{CO}_2$	$\text{D} + \text{T} \rightarrow \text{He} + \text{n}$	$\text{U} + \text{n} \rightarrow \text{Ba} + \text{Kr} + \text{n}$
Typical Inputs (to Power Plant)	Coal and Air	D_2O (2L, 10%) and T_2O (10L, 10%)	Uranium and Lithium
Typical Temp. (K)	1000	10000	100,000,000
Energy Released per kg Fuel (kJ/kg)	1.5×10^7	2.5×10^{11}	1.5×10^8

HOW FUSION REACTIONS WORK

NUCLEAR PHYSICS OF FUSION

Fusion reactions release energy by combining light nuclei to form heavier ones.

Binding Energy per Nucleon as a Function of Mass Number



Nuclear Reaction Energy: $\Delta E = \Delta (m_{\text{reactants}} - m_{\text{products}}) c^2$

For example, in a D-T reaction, the mass difference between the reactants and products is approximately 0.0188 atomic mass units (amu), which corresponds to an energy release of about 17.6 MeV.

Detailed Nuclear Masses

(The values are in atomic mass units)

Label	Species	Mass (amu)
1 (1H)	hydrogen	1.007825
2 (2H)	deuterium	2.014102
3 (3H)	tritium	3.016049
4 (4He)	helium-4	4.002603
5 (6Li)	lithium-6	6.015122
6 (7Li)	lithium-7	7.016004
7 (9Be)	beryllium-9	9.012182
8 (10B)	boron-10	10.012937
9 (11B)	boron-11	11.009305
10 (12C)	carbon-12	12.000000
11 (13C)	carbon-13	13.003355
12 (14N)	nitrogen-14	14.003074
13 (15N)	nitrogen-15	15.000109
14 (16O)	oxygen-16	15.994915
15 (17O)	oxygen-17	16.999131
16 (18O)	oxygen-18	17.999161
17 (19F)	fluorine-19	18.998403
18 (20Ne)	neon-20	19.992440
19 (21Ne)	neon-21	20.993867
20 (22Ne)	neon-22	21.991385
21 (23Na)	sodium-23	22.989769
22 (24Mg)	magnesium-24	23.985042
23 (25Mg)	magnesium-25	24.985837
24 (26Mg)	magnesium-26	25.982593
25 (28Si)	silicon-28	27.976927
26 (29Si)	silicon-29	28.976495
27 (30Si)	silicon-30	29.973762
28 (32S)	sulfur-32	31.972071
29 (33S)	sulfur-33	32.971458
30 (34S)	sulfur-34	33.967867
31 (36S)	sulfur-36	35.967081
32 (36Ar)	argon-36	35.967546
33 (38Ar)	argon-38	37.962732
34 (40Ar)	argon-40	39.962488
35 (40Ca)	calcium-40	39.962591
36 (42Ca)	calcium-42	41.958619
37 (44Ca)	calcium-44	43.959461
38 (46Ca)	calcium-46	45.955469
39 (48Ca)	calcium-48	47.952534
40 (45Sc)	scandium-45	44.955912
41 (46Ti)	titanium-46	45.952634
42 (48Ti)	titanium-48	47.947942
43 (50Ti)	titanium-50	49.944791
44 (50V)	vanadium-50	49.947152
45 (51V)	vanadium-51	50.943867
46 (52Cr)	chromium-52	51.940519
47 (53Cr)	chromium-53	52.940651
48 (54Cr)	chromium-54	53.940330
49 (55Mn)	manganese-55	54.938045
50 (56Fe)	iron-56	55.934936
51 (57Fe)	iron-57	56.935300
52 (58Fe)	iron-58	57.933276
53 (59Fe)	iron-59	58.934880
54 (59Co)	cobalt-59	58.933195
55 (60Ni)	nickel-60	59.930786
56 (61Ni)	nickel-61	60.931060
57 (62Ni)	nickel-62	61.928345
58 (64Ni)	nickel-64	63.927966
59 (63Cu)	copper-63	62.929598
60 (65Cu)	copper-65	64.927789
61 (64Zn)	zinc-64	63.929142
62 (66Zn)	zinc-66	65.925936
63 (68Zn)	zinc-68	67.924744
64 (70Zn)	zinc-70	69.924401
65 (69Ga)	gallium-69	68.925581
66 (71Ga)	gallium-71	70.924701
67 (72Ge)	germanium-72	71.924249
68 (74Ge)	germanium-74	73.921470
69 (76Ge)	germanium-76	75.921909
70 (75As)	arsenic-75	74.921889
71 (76Se)	selenium-76	75.921629
72 (78Se)	selenium-78	77.921629
73 (80Se)	selenium-80	79.921629
74 (82Se)	selenium-82	81.921629
75 (81Br)	bromine-81	80.918317
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77 (84Kr)	krypton-84	83.918317
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Fusion Plasma Physics

Michael Brown



Fusion Plasma Physics:

Embracing the Melody of Term: An Psychological Symphony within **Fusion Plasma Physics**

In some sort of eaten by screens and the ceaseless chatter of fast connection, the melodic splendor and mental symphony created by the published word often diminish in to the back ground, eclipsed by the persistent noise and interruptions that permeate our lives. However, located within the pages of **Fusion Plasma Physics** an enchanting literary prize brimming with natural emotions, lies an immersive symphony waiting to be embraced. Crafted by a masterful composer of language, that fascinating masterpiece conducts visitors on a psychological trip, well unraveling the concealed songs and profound impact resonating within each carefully constructed phrase. Within the depths of this moving examination, we shall examine the book is central harmonies, analyze their enthralling publishing design, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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