Scientists Tell of Oddities of Colors

It would be an awkward world thout color if all things were like thout so and all creatures like scapables, what endless collisions there would be! No doubt we should avoid me another like electric charges of he same sign—positive or negative; but what of those of different signs hat would be mutually attracted? It would be a world of blind experimentallon—think of a football match or allway station, even if all had eyes. Stads of ice leading to glass houses shabited by transparent men and women feeding on limped food! In the fourse of time a diamond statue would be erected to the investigator the succeeded in making soot. It is not altogether easy to get a clear view of the difference between coloration and pigmentation. A soap-bubble may how all the colors of the rainbow, and yet there is no pigment—nothing attansparent film of soapy water.

White a Blend of All.

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White a Blend of All.
On the other hand, writes Prof. J.
Arthur Thomson in T.P.'s Weekly,
some lower animals have blood that
seems colorless to ordinary inspection, though it contains an abundance
of oxygen-capturing pigment. There
may be color without pigment, as in
mother - of - pearl, which becomes
chalky powder when pounded up; and
there may be pigment without color.
But if often happens that the color of
a pigmented body, like a peacock's
feather or a butterfly's wing, is not
wholly due to the pigment, but to the
mysical structure as well. Thus the
familiar peacock's feather shows blue
and green color, though there is no
trace of blue or green pigment. From
a source of energy like the sun there
is a ceaseless outrushing of radiations
into space in the form of waves of
varying length from crest to crest.
Some of them waves are short, like
those of the N-rays, and some are
very long, like those of viraloss but
we can see. Of these the longest
are those which we call violet, while
the shortest are red, at the other end
of the spectrum, so familiar to us in
the rainbow. A blend of all the rays
comprises to very in the white light

Complimentary Colors.

If we write down the colors in tw

violet GREEN
INDIGO YELLOW
BLUE ORANGE
GREEN RED

arious ways. Thus, if alls on a sheet of coplight is absorbed, but lar is reflected. Then ruddy glow of the the sheet of copper is as that the light can then the red is absorbed ed light appears green. of solutions of copper he danggist's window, ower the copper moleorbing light towards the spectrum. Thus the ject depends on the which are absorbed or allowed to pass through. conditions the metal conear ruddy or green or

Whiteness.

ody has a highly polished yet not transparent, made up of numerous stals with entangled air be-re is complete reflection of and we say that the body quality of whiteness. Thus may be white, and the snow hite, and the waterfall is hair of the ermine and the the ptarmigan are white the reflection of the light erous vacoles among the Summer dress of these es the place of the bubbles by minute pigmented parout the entangled air and the if we squeeze out the air ween the cells of the petals thite narcissus, we make the oam transparent.

Pigment.

When the absorption or reflection certain parts of the visible spectam is due to some chemical protry of the molecule of a substance curring naturally in plants or anlis, we use the term "pigment" But is a deep and difficult problem to meet the pigmentary color with smical structure. When the interence with the white light is due to physical state of the body, as en there is a finely grated surface, a reflection of the light at two diffent levels, we speak of physical cration, as in mother of pearl. But is to fall is the combination of the sical and the chemical now so near nat is to say, of structural pigmary coloration, as in butterfly's

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