BERTRAND RUSSELL

MYSTICISM AND LOGIC

AND OTHER ESSAYS

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MYSTICISM AND LOGIC AND OTHER ESSAYS

BY BERTRAND RUSSELL

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PREFACE

The following essays have been written and published at various times, and my thanks are due to the previous publishers for the permission to reprint them.

The essay on "Mysticism and Logic" appeared in the _Hibbert Journal_

for July, 1914. "The Place of Science in a Liberal Education" appeared

in two numbers of _The New Statesman_, May 24 and 31, 1913. "The Free

Man's Worship" and "The Study of Mathematics" were included in a

former collection (now out of print), _Philosophical Essays , also

published by Messrs. Longmans, Green & Co. Both were written in 1902;

the first appeared originally in the _Independent Review_ for 1903,

the second in the _New Quarterly_, November, 1907. In theoretical

Ethics, the position advocated in "The Free Man's Worship" is not

quite identical with that which I hold now: I feel less convinced than

I did then of the objectivity of good and evil. But the general

attitude towards life which is suggested in that essay still seems to

me, in the main, the one which must be adopted in times of stress and

difficulty by those who have no dogmatic religious beliefs, if inward

defeat is to be avoided.

The essay on "Mathematics and the Metaphysicians" was written in 1901,

and appeared in an American magazine, _The International Monthly ,

under the title "Recent Work in the Philosophy of Mathematics." Some

points in this essay require modification in view of later work.

These are indicated in footnotes. Its tone is partly explained by the

fact that the editor begged me to make the article "as romantic as possible."

All the above essays are entirely popular, but those that follow are

somewhat more technical. "On Scientific Method in Philosophy" was the

Herbert Spencer lecture at Oxford in 1914, and was published by the

Clarendon Press, which has kindly allowed me to include it in this

collection. "The Ultimate Constituents of Matter" was an address to

the Manchester Philosophical Society, early in 1915, and was published

in the _Monist_ in July of that year. The essay on "The Relation of

Sense-data to Physics" was written in January, 1914, and first

appeared in No. 4 of that year's volume of Scientia,

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an
International Review of Scientific Synthesis, edited by
M. Eugenio
Rignano, published monthly by Messrs. Williams and
Norgate, London,
Nicola Zanichelli, Bologna, and Félix Alcan, Paris. The
essay "On the
Notion of Cause" was the presidential address to the
Aristotelian
Society in November, 1912, and was published in their
Proceedings
for 1912-13. "Knowledge by Acquaintance and Knowledge by
Description"
was also a paper read before the Aristotelian Society,
and published
in their Proceedings for 1910-11.
  LONDON,
    September, 1917
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MYSTICISM AND LOGIC AND OTHER ESSAYS

Ι

MYSTICISM AND LOGIC

Metaphysics, or the attempt to conceive the world as a whole by means of thought, has been developed, from the first, by the union and conflict of two very different human impulses, the one urging men towards mysticism, the other urging them towards science. Some men have achieved greatness through one of these impulses alone, others through the other alone: in Hume, for example, the scientific impulse reigns quite unchecked, while in Blake a strong hostility to science co-exists with profound mystic insight. But the greatest men who have been philosophers have felt the need both of science and of mysticism:

the attempt to harmonise the two was what made their life, and what

always must, for all its arduous uncertainty, make philosophy, to some

minds, a greater thing than either science or religion.

Before attempting an explicit characterisation of the scientific and

the mystical impulses, I will illustrate them by examples from two

philosophers whose greatness lies in the very intimate blending which

they achieved. The two philosophers I mean are Heraclitus and Plato.

Heraclitus, as every one knows, was a believer in universal flux: time

builds and destroys all things. From the few fragments that remain, it

is not easy to discover how he arrived at his opinions, but there are

some sayings that strongly suggest scientific observation as the source.

"The things that can be seen, heard, and learned," he says, "are what

I prize the most." This is the language of the empiricist, to whom

observation is the sole guarantee of truth. "The sun is new every

day," is another fragment; and this opinion, in spite of its

paradoxical character, is obviously inspired by scientific reflection,

and no doubt seemed to him to obviate the difficulty of understanding

how the sun can work its way underground from west to east during the

night. Actual observation must also have suggested to him his central

doctrine, that Fire is the one permanent substance, of which all

visible things are passing phases. In combustion we see

things change utterly, while their flame and heat rise up into the air and vanish.

"This world, which is the same for all," he says, "no one of gods or men has made; but it was ever, is now, and ever shall

be, an ever-living Fire, with measures kindling, and measures

going out."

"The transformations of Fire are, first of all, sea; and half of the sea is earth, half whirlwind."

This theory, though no longer one which science can accept, is

nevertheless scientific in spirit. Science, too, might have inspired

the famous saying to which Plato alludes: "You cannot step twice into

the same rivers; for fresh waters are ever flowing in upon you." But

we find also another statement among the extant fragments: "We step

and do not step into the same rivers; we are and are not."

The comparison of this statement, which is mystical, with the one

quoted by Plato, which is scientific, shows how intimately the two

tendencies are blended in the system of Heraclitus. Mysticism is, in

essence, little more than a certain intensity and depth of feeling in

regard to what is believed about the universe; and this kind of

feeling leads Heraclitus, on the basis of his science, to strangely

poignant sayings concerning life and the world, such as:

"Time is a child playing draughts, the kingly power is a child's."

It is poetic imagination, not science, which presents Time as despotic

lord of the world, with all the irresponsible frivolity of a child. It

is mysticism, too, which leads Heraclitus to assert the identity of

opposites: "Good and ill are one," he says; and again: "To God all

things are fair and good and right, but men hold some things wrong and some right."

Much of mysticism underlies the ethics of Heraclitus. It is true that

a scientific determinism alone might have inspired the statement:

"Man's character is his fate"; but only a mystic would have said:

"Every beast is driven to the pasture with blows"; and again:

"It is hard to fight with one's heart's desire. Whatever it wishes to

get, it purchases at the cost of soul"; and again:

"Wisdom is one thing. It is to know the thought by which all things

are steered through all things."[1]

Examples might be multiplied, but those that have been given are

enough to show the character of the man: the facts of science, as they

appeared to him, fed the flame in his soul, and in its light he saw

into the depths of the world by the reflection of his own dancing

swiftly penetrating fire. In such a nature we see the true union of

the mystic and the man of science--the highest eminence, as I think,

that it is possible to achieve in the world of thought.

In Plato, the same twofold impulse exists, though the

mystic impulse

is distinctly the stronger of the two, and secures ultimate victory

whenever the conflict is sharp. His description of the cave is the

classical statement of belief in a knowledge and reality truer and

more real than that of the senses:

"Imagine[2] a number of men living in an underground cavernous

chamber, with an entrance open to the light, extending along the

entire length of the cavern, in which they have been confined, from

their childhood, with their legs and necks so shackled that they

are obliged to sit still and look straight forwards, because their

chains render it impossible for them to turn their heads round: and

imagine a bright fire burning some way off, above and behind them,

and an elevated roadway passing between the fire and the prisoners,

with a low wall built along it, like the screens which conjurors

put up in front of their audience, and above which they exhibit

their wonders.

I have it, he replied.

Also figure to yourself a number of persons walking behind this

wall, and carrying with them statues of men, and images of other

animals, wrought in wood and stone and all kinds of materials,

together with various other articles, which overtop the wall; and,

as you might expect, let some of the passers-by be talking, and

others silent.

You are describing a strange scene, and strange prisoners.

They resemble us, I replied.

Now consider what would happen if the course of nature brought them

a release from their fetters, and a remedy for their foolishness,

in the following manner. Let us suppose that one of them has been

released, and compelled suddenly to stand up, and turn his neck

round and walk with open eyes towards the light; and let us suppose

that he goes through all these actions with pain, and that the

dazzling splendour renders him incapable of discerning those

objects of which he used formerly to see the shadows. What answer

should you expect him to make, if some one were to tell him that in

those days he was watching foolish phantoms, but that now he is

somewhat nearer to reality, and is turned towards things more real,

and sees more correctly; above all, if he were to point out to him

the several objects that are passing by, and question him, and

compel him to answer what they are? Should you not expect him to be

puzzled, and to regard his old visions as truer than the objects

now forced upon his notice?

Yes, much truer....

Hence, I suppose, habit will be necessary to enable him to perceive

objects in that upper world. At first he will be most successful in

distinguishing shadows; then he will discern the reflections of men

and other things in water, and afterwards the realities; and after

this he will raise his eyes to encounter the light of the moon and

stars, finding it less difficult to study the heavenly bodies and

the heaven itself by night, than the sun and the sun's light by day.

Doubtless.

Last of all, I imagine, he will be able to observe and contemplate

the nature of the sun, not as it _appears_ in water or on alien

ground, but as it is in itself in its own territory.

Of course.

His next step will be to draw the conclusion, that the sun is the

author of the seasons and the years, and the guardian of all things

in the visible world, and in a manner the cause of all those things

which he and his companions used to see.

Obviously, this will be his next step....

Now this imaginary case, my dear Glancon, you must apply in all its

parts to our former statements, by comparing the region which the

eye reveals to the prison house, and the light of the fire therein

to the power of the sun: and if, by the upward ascent and the

contemplation of the upper world, you understand the mounting of

the soul into the intellectual region, you will hit the tendency of

my own surmises, since you desire to be told what they are; though,

indeed, God only knows whether they are correct. But,

be that as it

may, the view which I take of the subject is to the following

effect. In the world of knowledge, the essential Form of Good is

the limit of our enquiries, and can barely be perceived; but, when

perceived, we cannot help concluding that it is in every case the

source of all that is bright and beautiful, -- in the visible world

giving birth to light and its master, and in the intellectual world

dispensing, immediately and with full authority, truth and

reason; -- and that whosoever would act wisely, either in private or

in public, must set this Form of Good before his eyes."

But in this passage, as throughout most of Plato's teaching, there is

an identification of the good with the truly real, which became

embodied in the philosophical tradition, and is still largely

operative in our own day. In thus allowing a legislative function to

the good, Plato produced a divorce between philosophy and science,

from which, in my opinion, both have suffered ever since and are still

suffering. The man of science, whatever his hopes may be, must lay

them aside while he studies nature; and the philosopher, if he is to

achieve truth, must do the same. Ethical considerations can only

legitimately appear when the truth has been ascertained: they can and

should appear as determining our feeling towards the truth, and our

manner of ordering our lives in view of the truth, but not as

themselves dictating what the truth is to be.

There are passages in Plato--among those which illustrate the

scientific side of his mind--where he seems clearly aware of this. The

most noteworthy is the one in which Socrates, as a young man, is

explaining the theory of ideas to Parmenides.

After Socrates has explained that there is an idea of the good, but

not of such things as hair and mud and dirt, Parmenides advises him

"not to despise even the meanest things," and this advice shows the

genuine scientific temper. It is with this impartial temper that the

mystic's apparent insight into a higher reality and a hidden good has

to be combined if philosophy is to realise its greatest possibilities.

And it is failure in this respect that has made so much of idealistic

philosophy thin, lifeless, and insubstantial. It is only in marriage

with the world that our ideals can bear fruit: divorced from it, they

remain barren. But marriage with the world is not to be achieved by an

ideal which shrinks from fact, or demands in advance that the world

shall conform to its desires.

Parmenides himself is the source of a peculiarly interesting strain

of mysticism which pervades Plato's thought--the mysticism which may

be called "logical" because it is embodied in theories on logic. This

form of mysticism, which appears, so far as the West is concerned, to $% \left(1\right) =\left(1\right) +\left(1$

have originated with Parmenides, dominates the reasonings of all the

great mystical metaphysicians from his day to that of Hegel and his

modern disciples. Reality, he says, is uncreated, indestructible,

unchanging, indivisible; it is "immovable in the bonds of mighty

chains, without beginning and without end; since coming into being and

passing away have been driven afar, and true belief has cast them

away." The fundamental principle of his inquiry is stated in a

sentence which would not be out of place in Hegel: "Thou canst not

know what is not--that is impossible--nor utter it; for it is the same

thing that can be thought and that can be. And again: "It needs must

be that what can be thought and spoken of is; for it is possible for

it to be, and it is not possible for what is nothing to be. The

impossibility of change follows from this principle; for what is past

can be spoken of, and therefore, by the principle, still is.

Mystical philosophy, in all ages and in all parts of the world, is

characterised by certain beliefs which are illustrated by the

doctrines we have been considering.

There is, first, the belief in insight as against discursive analytic

knowledge: the belief in a way of wisdom, sudden,
penetrating,

coercive, which is contrasted with the slow and fallible study of

outward appearance by a science relying wholly upon the senses. All

who are capable of absorption in an inward passion must have

experienced at times the strange feeling of unreality in common

objects, the loss of contact with daily things, in which the solidity

of the outer world is lost, and the soul seems, in utter loneliness,

to bring forth, out of its own depths, the mad dance of fantastic

phantoms which have hitherto appeared as independently real and

living. This is the negative side of the mystic's initiation: the

doubt concerning common knowledge, preparing the way for the reception

of what seems a higher wisdom. Many men to whom this negative

experience is familiar do not pass beyond it, but for the mystic it is

merely the gateway to an ampler world.

The mystic insight begins with the sense of a mystery unveiled, of a

hidden wisdom now suddenly become certain beyond the possibility of a

doubt. The sense of certainty and revelation comes earlier than any

definite belief. The definite beliefs at which mystics arrive are the

result of reflection upon the inarticulate experience gained in the

moment of insight. Often, beliefs which have no real connection with

this moment become subsequently attracted into the central nucleus;

thus in addition to the convictions which all mystics share, we find,

in many of them, other convictions of a more local and temporary

character, which no doubt become amalgamated with what was essentially

mystical in virtue of their subjective certainty. We may ignore such

inessential accretions, and confine ourselves to the beliefs which all mystics share.

The first and most direct outcome of the moment of illumination is

belief in the possibility of a way of knowledge which

may be called

revelation or insight or intuition, as contrasted with sense, reason,

and analysis, which are regarded as blind guides leading to the morass

of illusion. Closely connected with this belief is the conception of a

Reality behind the world of appearance and utterly different from it.

This Reality is regarded with an admiration often amounting to

worship; it is felt to be always and everywhere close at hand, thinly

veiled by the shows of sense, ready, for the receptive mind, to shine

in its glory even through the apparent folly and wickedness of Man.

The poet, the artist, and the lover are seekers after that glory: the

haunting beauty that they pursue is the faint reflection of its sun.

But the mystic lives in the full light of the vision: what others

dimly seek he knows, with a knowledge beside which all other knowledge is ignorance.

The second characteristic of mysticism is its belief in unity, and its

refusal to admit opposition or division anywhere. We found Heraclitus

saying "good and ill are one"; and again he says, "the way up and the

way down is one and the same." The same attitude appears in the

simultaneous assertion of contradictory propositions, such as: "We

step and do not step into the same rivers; we are and are not." The

assertion of Parmenides, that reality is one and indivisible, comes

from the same impulse towards unity. In Plato, this impulse is less

prominent, being held in check by his theory of ideas; but it

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