



## The Particle Explosion

By Frank Close, Michael Marten, Christine Sutton

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**The Particle Explosion** By Frank Close, Michael Marten, Christine Sutton

*The Particle Explosion* is a spectacular illustrated tour of the subatomic world, the first book to describe to the general reader how the study of basic particles over the last hundred years has led us closer to an understanding of the origins of the Universe. This journey to the heart of matter opens with an introduction to the basic particles (a subatomic "zoo" that includes quarks, electrons, leptons, 'strange' particles and 'charmed' particles) and of the methods used to create and investigate them. The even-numbered chapters tell the story of their discovery, from the first experiments with X-rays and the elucidation of the nature of the atom, to the great machines that today smash particles together at enormous energy levels. The odd-numbered chapters describe the major particles in more detail. With over 300 fascinating illustrations, the book brings together many historical photographs of leading scientists in the field, the increasingly vast and complex equipment they use (bubble chambers, accelerators and modern electronic detectors), and the striking images of tracks produced by the particles themselves.

Detailing in readable, jargon-free language the new vistas particle physics has opened--from the approach to a Grand Unified Theory of matter to the detection of art forgeries--this book is must reading for anyone who hopes to understand more about the brave new world of modern science.

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## **The Particle Explosion** By Frank Close, Michael Marten, Christine Sutton Bibliography

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## **Editorial Review**

From Library Journal

The largest atom is too small to be seen with even the finest microscope. Nevertheless, particle physicists study the constituents of atoms, objects that are far, far smaller. This book describes these strange objects, the people who have studied them, and the mechanisms that are used to find them. The fine text material is accompanied by an outstanding array of color photographs, including pictures of tracks left by subatomic particles in bubble chamber and electronic chamber detectors. There are clear descriptions of how these photographs can be interpreted that will convince even the most skeptical. A visually arresting work, the best book on modern particle physics for the layperson this reviewer has seen. Harold D. Shane, Mathematics Dept., Baruch Coll., CUNY

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## **About the Author**

*About the Authors:*

**Frank Close** is Senior Principal Scientist at the Rutherford Appleton Laboratory and is the author of *Introduction to Quarks and Partons* (1979). **Michael Marten** is the author of *The New Astronomy* (Oxford, 1984). **Christine Sutton**, a Research Associate in the Department of Nuclear Physics at Oxford University, is also the author of *he Particle Connection* (1984) and *Building the Universe* (1985).

## **Users Review**

**From reader reviews:**

**Kevin Buckley:**

Your reading sixth sense will not betray you actually, why because this The Particle Explosion guide written by well-known writer who knows well how to make book that can be understand by anyone who read the book. Written throughout good manner for you, leaking every ideas and writing skill only for eliminate your hunger then you still uncertainty The Particle Explosion as good book but not only by the cover but also through the content. This is one book that can break don't judge book by its deal with, so do you still needing another sixth sense to pick this specific!? Oh come on your reading through sixth sense already said so why you have to listening to yet another sixth sense.

**Christopher Forney:**

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