



# Introduction to Nanosatellite Technology and Components: Applications of Cubesat Technology

By Lakshya Vaibhav Datta

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## Introduction to Nanosatellite Technology and Components: Applications of Cubesat Technology By Lakshya Vaibhav Datta

With the advents in space technology, the concept of making cubesat type nanosatellites and sending them to space has become quite common. Nowadays, you can find many Cubesats and other types of nanosatellite orbiting Earth and conducting experiments for universities. Hence, there is a significant demand to find good sources in nanosatellite technology. Unfortunately, the material that exists on the net for each Cubesat is not sufficient to guide interested persons who may be starting their own Cubesat project. This book is intended to be a basic textbook to guide students and professionals to start their own nanosatellite project. This book by Lakshya with supervision of Dr. Ugur Guven details the major components of a nanosatellite system like the power systems, attitude adjustment systems, communication & telemetry systems, propulsion systems and the control & distribution systems. The book also mentions the possibility of payload positioning within the nanosatellite as well. General review of nanosatellite systems is provided along with figures to help visualize the concepts. Authors recommend the book for all interested persons who want to learn about nanosatellite technology.

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#### **About the Author**

Lakshya Datta is a distinguished Aerospace Engineering student who worked in UPESSAT nanosatellite project as a team leader. He has also worked on an international space debris removal project. Editor Dr. Ugur GUVEN is an Aerospace Engineer with over 50 publications and 4 books. He has successfully guided two nanosatellite projects and many students.

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