

Lego Mindstorms Nxt Mars Base Command

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congratulations you're on Mars Base Alpha the first human outpost on the red planet don't relax though it's not all roses and unicorns up here Mars isn't called the bringer of war for nothing you've just been rained on by a meteor shower and it's up to you you to put your Lego Mindstorms Nxt robotics skills to work to save the day and the base and that's only the beginning of the challenges that lie ahead Lego Mindstorms Nxt Mars Base Command is a book of challenge it's about challenging yourself to design and build robots to solve problems tough problems taking a similar approach to best-selling Lego author James Kelly's other books this book presents

a series of four challenges in the setting of mankind's first ever manned base on the planet Mars. Each challenge begins with a backstory to set the scene. You're given instructions for constructing a playing field including devices that your eventual robot must manipulate. Your job is to build a robot that will execute the challenge and garner you the most points. The book requires the Lego Mindstorms Nxt Education Resource Set. Scoring sheets are included that allow for the book's use in educational and group settings. Teachers can base lesson plans around the different concepts taught in each challenge. Groups and clubs can choose to run mini competitions in which teams or individuals compete against each other in a race to save the base. Lego Mindstorms Nxt Mars Base Command is an excellent choice for an individual, a group, or a teacher wishing to learn about and have more fun with Lego's best-selling robotics platform. Please note: the print version of this title is black and white; the ebook is full color.

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Two surface base build-up scenarios are presented in order to help visualize the mission and to serve as a basis for trade studies. In the first scenario, direct manned landings on the Martian surface occur early in the mission, and scientific investigation is the main driver and rationale. In the second scenario, early development of an infrastructure to exploit the volatile resources of the Martian moons for economic purposes is emphasized. Scientific exploration of the surface is delayed at first but, once begun, develops rapidly, aided by the presence of a permanently manned orbital station.

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