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provides in depth textbook style coverage combined with an intuitive low math approach the book covers the latest breakthroughs in global wireless applications digital television and internet access via satellite evolution of satellite technology and applications 3 1 1 satellite network fundamentals 7 1 2 satellite application types 14 1 2 1 broadcast and multicast of digital content 14 1 2 2 voice and telephony networks 20 1 2 3 data communications and the internet 23 1 2 4 mobile and personal communications 25 references 26 chapter 2 describes and explains historic current and planned civil commercial and military mobile satellite communication systems first edition charts and tables updated and expanded with current material for today s mobile satellite technology 1 policy making bodies on satellite communications communications satellites are an important delivery platform for information society services as diverse as interactive tv and mobile broadband internet access this chapter introduces what is meant by the term applications satellite and addresses why it makes sense to address the four main space applications in a consolidated reference work satellite communication spacecraft orbit signals the idea of communicating through a satellite first appeared in the short story titled the brick moon written by the american clergyman and author edward everett hale and published in the atlantic monthly in 1869 70 the air ground international radio agir service provides radio relay services to aircraft operating in oceanic airspace or in coastal regions of the u s canada gulf of mexico and the caribbean these services are provided by hf and vhf radio as well as satellite voice satvoice communications satellites making the global village possible by david j whalen in 500 years when humankind looks back at the dawn of space travel apollo s landing on the moon in 1969 may be the only event remembered satellite communication orbital mechanics we know that the path of satellite revolving around the earth is known as orbit this path can be represented with mathematical notations orbital mechanics is the study of the motion of the satellites that are present in orbits

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