

A Gaterry can be commented to all makes or few modes. total data received from all nodes & Si of Goting i - Pr. B. - > Battery power required to send the Pil Battyy power required to und data from no P11 + P12 + -- P1 x = B1 till B, becomes o, it can transmit. P1, P2, - power required to two on the Gateway (
(Say Raspherry Pizz or disktop computer). - always thereing on all Caterray is not required!. Objective: Minimize power: (total Power) P<sub>11</sub> + P<sub>12</sub> + P<sub>13</sub> + - P<sub>15</sub> + P<sub>2</sub> + P<sub>3</sub> + ---P<sub>6</sub>,

P<sub>1</sub> + P<sub>12</sub> + P<sub>13</sub> + ---P<sub>6</sub>,

P<sub>1</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>1</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>3</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>4</sub> + P<sub>12</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>5</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>6</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>7</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>8</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>8</sub> + P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>2</sub> + P<sub>3</sub> + P<sub>2</sub> + P<sub>3</sub> + ----P<sub>6</sub>,

P<sub>1</sub> + P<sub>2</sub> + P<sub>3</sub> + P<sub>3</sub>

noed 56

con sond 35 to 6,1 9 25 to 6,2 7 deside posed on on send 56 to 6,2

	* Facility location Problem Travioles, Un-Capacitated Rapacitated
*	Maximum Flow Theorem
*	Exact Cover Set Graph problem.
×	X3C
	Greaty Set - Cover Algorithm & download - Neal E. Young, University of Colifornia
	vary - no of nodes - graph
	Total Power modes nodes nodes no. of gateways.
-	min 4 phots de data sent capacit
	no. of mods
	Moin Ogcetive Minimize power.

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