كلية العلومر College of Sciences

جامعة الملك عبدالعزيز King Abdulaziz University



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MainPage		<u>Research Details :</u>
About College	Research Title	: Regular Near Hexagons and Related Groups or Designs
Files		المنظم بقرب السداسي أو التصاميم المتعلقة
Researches	Descriptipn	: The concept of a near 2n-gon is due to Shult and Yanushka [20]. Near 2n-gons are essentially a linear incidence system of points
Courses		and lines. A near 2n-gon (, L) has order (s, t) if each point lies on
Favorite Links		1 + t lines and each line contains 1 + s points. A near 2n-gon of order (s, t) is called regular with parameters (s, t2, t3, tn = t) if, whenever two points p and q are at distance d (1 ? d ? n), then
Our Contacts		
Visits Of this Page:12 SHARE 📑 😭 💐		exactly 1 + td lines through q carry points at distance d - 1 from p. The thesis comprises into four chapters. The first chapter is introductory and gives some basic definitions, terminology and preliminary concepts. In the second chapter we list some known results about regular 2n-gons with n = 2, 3, 4. In the third chapter we find eleven necessary conditions for the existence of a regular near hexagon and classify the following: (a) Thin near hexagons and related designs. (b) Near hexagons of Hamming type and their existence. (c) Classical near hexagons and the related classical simple groups. In the fourth chapter we discuss sporadic near hexagons. We obtain twelve feasible parameter sets for s = kt2, 1 ? k ? 5. Out of these twelve cases, we find some realizable regular near hexagons. In some cases, near hexagons do not exists and the remaining cases are still undecided
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